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Occupational Injuries and Illnesses in the United States by Industry, 1991

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U.S. Department of Labor
Robert B. Reich, Secretary

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Preface

Data in this bulletin were collected in accordance with the provisions of the Occupational Safety and Health Act of 1970. The estimates represent the reported injury and illness experience of employers in private industry establishments. Report forms are mailed to employers in the year following the reference year of each survey.

This bulletin was prepared in the Bureau's Office of Safety, Health and Working Conditions, William M. Eisenberg, Assistant Commissioner. Ethel C. Jackson directed James D. Barnhardt, Laura A. Harthun, John J. Kane, and JoAnn M. Tschiffely in its preparation in the Division of Safety and Health Statistics, Branch of the An-

nual Survey. Data were tabulated in the Division of Safety and Health Systems in cooperation with regional offices of the Bureau of Labor Statistics and the State agencies which received Federal funds for participating in the Annual Survey of Occupational Injuries and Illnesses.

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Contents

	<i>Page</i>
Overview	1
Injuries	1
Number of cases	2
Incidence rates	2
Lost worktime injuries	4
Illnesses	5
Number and distribution	6
Incidence rates	6
Industries having high rates for disorders associated with repeated trauma	7
Fatalities	7
Scope and classification by associated object or event	7
Number of fatalities in the annual survey and incidence rates	7
Text tables:	
1. Occupational injury and illness incidence rates, private industry, 1972-91	1
2. Industries with the highest total case incidence rates for injuries and illnesses combined, private industry, 1991	2
3. Occupational injuries: Number of cases and incidence rates for industries reporting 100,000 or more injury cases, private industry, 1991	2
4. Industries with the highest lost workday case incidence rates for injuries only, private industry, 1991	4
5. Percent distribution of new cases of reported occupational illnesses by category of illness, private industry, 1981-91	5
6. Industries with the highest number of new illness cases of disorders associated with repeated trauma, private industry, 1991	6
7. Industries with the highest illness incidence rates of new cases of disorders associated with repeated trauma, private industry, 1991	6
8. Number and rate of annual survey occupational fatalities for employers with 11 employees or more by industry division, private industry, 1990-91	7
Charts:	
1. Occupational injury and illness incidence rates for total cases, lost workday cases, and nonfatal cases without lost workdays, private industry, 1972-91	3
2. Occupational injury incidence rates for lost workdays by industry division, private industry, 1990-91	3
3. Number of new cases of occupational illnesses, private industry, 1981-91	5
Tables:	
1. Occupational injury and illness incidence rates by industry, 1990 and 1991	8
2. Number of occupational injuries and illnesses, and lost workdays by industry division, 1990 and 1991	22
3. Occupational injury incidence rates by industry, 1990 and 1991	23

Contents – Continued

	<i>Page</i>
4. Occupational injury incidence rates by industry division and employment size, 1990 and 1991	37
5. Occupational injury incidence rates for lost workday cases by industry, 1990 and 1991	38
6. Number of occupational injuries and illnesses by industry, 1991	40
7. Occupational illness incidence rates by industry and category of illness, 1991	42
8. Number of new cases of occupational illnesses by industry division and category of illness, 1991	46
9. Employment and occupational injury and illness fatalities for employers with 11 employees or more by industry division, 1990 and 1991	47
10. Distribution of fatalities by associated object or event: Occupational injury and illness fatalities for employers with 11 employees or more, 1990-91 average	48
11. Distribution of fatalities by industry division: Occupational injury and illness fatalities for employers with 11 employees or more, 1990-91 average	49
 Appendixes:	
A. Scope and method of survey	50
 Tables:	
A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991	52
A-2. Relative standard errors for measures of occupational illnesses by industry, 1991	66
A-3. Relative standard errors for measures of occupational illnesses by industry, and category of illness, 1991	68
A-4. Relative standard errors for occupational injury and illness fatalities for employers with 11 employees or more by industry division, 1991	72
B. Definitions	73
C. How to compute your firm's incidence rate for safety management	75
D. OSHA No. 200-S report form and instructions	76
E. State agencies receiving Federal funds	81
Work Injury Report Publications	84

Occupational Injuries and Illnesses in the United States by Industry, 1991

Overview

During 1991, the Nation's private industry workers experienced approximately 6.3 million job-related injuries and illnesses. These occupational injuries and illnesses occurred at a rate of 8.4 per 100 full-time workers, a decline from 8.8 in 1990. This was the largest such decline since the recessionary period of 1981-82. (See text table 1 and chart 1.)

The survey provides estimates of the number and fre-

Text table 1. Occupational injury and illness incidence rates,¹ private industry, 1972-91²

Year	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
1972	10.9	3.3	7.6	47.9
1973	11.0	3.4	7.5	53.3
1974	10.4	3.5	6.9	54.6
1975	9.1	3.3	5.8	56.1
1976	9.2	3.5	5.7	60.5
1977	9.3	3.8	5.5	61.6
1978 ³	9.4	4.1	5.3	63.5
1979 ³	9.5	4.3	5.2	67.7
1980	8.7	4.0	4.7	65.2
1981	8.3	3.8	4.5	61.7
1982	7.7	3.5	4.2	58.7
1983 ³	7.6	3.4	4.2	58.5
1984 ³	8.0	3.7	4.3	63.4
1985	7.9	3.6	4.3	64.9
1986	7.9	3.6	4.3	65.8
1987	8.3	3.8	4.4	69.9
1988	8.6	4.0	4.6	76.1
1989	8.6	4.0	4.6	78.7
1990	8.8	4.1	4.7	84.0
1991	8.4	3.9	4.5	86.5

¹ The incidence rates represent the number of injuries and illnesses or lost workdays per 100 full-time workers. See appendix B for method of calculation.

² Data for 1972-75 are based on the *Standard Industrial Classification Manual*, 1967 Edition; data for 1976-87 are based on the *Standard Industrial Classification Manual*, 1972 Edition; and data for 1988-91 are based on the *Standard Industrial Classification Manual*, 1987 Edition.

³ In 1978, 1979, 1983, and 1984 small nonfarm employers in low-risk industries were not surveyed. To maintain comparability with the other data, a statistical method was developed to provide estimates for those employers.

NOTE: Data for 1976-91 exclude farms with fewer than 11 employees.

quency (incidence rates) of occupational injuries and illnesses, based on logs kept by private industry employers during the year. These records reflect not only the year's injury and illness experience but also the employer's understanding of the types of cases to record under current recordkeeping guidelines. Also, the number of injuries and illnesses reported in any given year can be influenced by factors such as changes in working conditions, work practices, the number of hours worked, and worker experience and training. Therefore, year-to-year changes shown in the tables and charts need to be interpreted with caution.

The industries with the 25 highest injury and illness incidence rates were in manufacturing, as shown in text table 2. The industries shown were determined by comparing the total case rates for injuries and illnesses combined at the most detailed industry level at which rates are calculated.

The data presented in this bulletin are based on the industry classifications provided in the 1987 edition of the *Standard Industrial Classification (SIC) Manual*, prepared by the U.S. Office of Management and Budget. The SIC is used to classify establishments by the type of activity in which they are engaged and to facilitate the collection, tabulation, presentation, and analysis of data relating to establishments.

The occupational injury and illness data for manufacturing are generated at the SIC division, 2-, 3-, and detailed 4-digit industry levels. Data for agriculture, forestry, and fishing are generated at the division and 2-digit industry levels and data for metal and nonmetal mining; construction; transportation and public utilities; trade; finance, insurance, and real estate; and services are generated at the division, 2-, and 3-digit industry levels.

This bulletin presents data and information primarily on the occupational injury experience of the American worker in 1991, including the number of cases, incidence rates, and lost worktime injuries (tables 2-6). To a more limited extent, information is also presented for occupational illnesses and fatalities (tables 7-11). Also, information is included in the text on industries experiencing high incidence rates for several categories of cases.

Injuries

An occupational injury is one which results from a work-related event or from a single instantaneous expo-

Text table 2. Industries with the highest total case incidence rates¹ for injuries and illnesses combined, private industry, 1991

Industry ²	SIC code ³	Incidence rate
Meat packing plants	2011	45.5
Ship building and repairing	3731	44.1
Metal sanitary ware	3431	42.0
Gray and ductile iron foundries	3321	31.3
Household appliances, n.e.c.	3639	30.7
Motor vehicles and car bodies	3711	28.3
Automotive stampings	3465	27.5
Truck trailers	3715	25.5
Special product sawmills, n.e.c.	2429	25.1
Steel foundries, n.e.c.	3325	24.1
Primary aluminum	3334	23.5
Prefabricated wood buildings	2452	23.5
Truck and bus bodies	3713	23.4
Poultry slaughtering and processing ..	2015	23.1
Structural wood members, n.e.c.	2439	22.9
Mobile homes	2451	22.9
Metal barrels, drums, and pails	3412	22.1
Motorcycles, bicycles, and parts	3751	22.0
Malt	2083	21.7
Flat glass	3211	21.7
Secondary nonferrous metals	3341	21.6
Aluminum foundries	3365	21.3
Railroad equipment	3743	21.1
Mattresses and bedsprings	2515	21.0
Fresh or frozen prepared fish	2092	21.0
Fabricated structural metal	3441	20.9
Aluminum die-castings	3363	20.9
Sausages and other prepared meats ..	2013	20.8
Iron and steel forgings	3462	20.7
Travel trailers and campers	3792	20.7
Leather tanning and finishing.	3111	20.4

¹ The incidence rates represent the number of injuries and illnesses per 100 full-time workers. See appendix B for method of calculation.

² High-rate industries were those having the 25 highest total case incidence rates for injuries and illnesses combined at the most detailed or lowest SIC level at which rates were calculated and published. Based on this comparison, the highest rates were all reported in manufacturing industries. Generally, manufacturing industries were calculated at the 4-digit code level based on the *Standard Industrial Classification Manual*, 1987 Edition. Agriculture, forestry, and fishing were calculated at the 2-digit level; and the remaining industries at the 3-digit level.

³ *Standard Industrial Classification Manual*, 1987 Edition.

n.e.c. = not elsewhere classified.

sure in the work environment. Injuries are reported if they result in death, lost worktime, medical treatment other than first aid, loss of consciousness, restriction of work or motion, or transfer to another job.

Number of cases

Nearly 6.0 million occupational injuries were reported in private industry in 1991. The manufacturing industry division accounted for one-third of the total (nearly 2.0 million cases). The services industry division accounted for slightly more than one-fifth of the injury cases in pri-

vate industry. Other industry divisions with substantial proportions of injuries included wholesale and retail trade; construction; and transportation and public utilities.

Even though nearly 1 out of every 3 injuries in 1991 occurred in manufacturing, the 8 detailed industries reporting the largest numbers of workplace injuries—at least 100,000 cases—included 7 outside of the manufacturing division, as indicated in text table 3.

Text table 3. Occupational injuries: Number of cases and incidence rates¹ for industries reporting 100,000 or more injury cases, private industry, 1991

Industry	SIC code ²	Total cases (in thousands)	Incidence rate
Eating and drinking places	581	310.0	7.4
Hospitals	806	308.9	10.8
Grocery stores	541	238.4	11.7
Trucking and courier services, except air	421	200.6	14.4
Nursing and personal care facilities	805	174.1	15.0
Department stores ..	531	154.8	11.0
Motor vehicles and equipment manufacturing	371	139.2	18.6
Hotels and motels ..	701	118.9	10.2

¹ The incidence rates represent the number of injuries per 100 full-time workers. See appendix B for method of calculation.

² *Standard Industrial Classification Manual*, 1987 Edition.

Incidence rates

During 1991, work-related injuries occurred at a rate of 7.9 per 100 full-time workers. Among industry divisions, the rates ranged from 2.3 in finance, insurance, and real estate to 12.8 in construction.

Goods-producing industries (agriculture, forestry, and fishing; mining; construction; and manufacturing) combined had an injury incidence rate of 11.3 in 1991. The major industry group in the goods-producing sector (the 2-digit SIC level) having the lowest rate was instruments and related products manufacturing (SIC 38) at 5.0; the highest rate was 16.5 in primary metal manufacturing (SIC 33).

The service-producing industries (transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services), employing nearly seven-tenths of the private industry work force, had a combined injury rate of 6.4 in 1991. The incidence rates of the major industry groups varied from 0.6 in legal services (SIC 81) to 14.4 in trucking and warehousing (SIC 42). Table 3 presents occupational injury incidence rates by industry.

As in previous years, private industry injury rates varied widely by establishment size. Rates for establishments having fewer than 50 employees or 1,000 employees or more were lower than the rates for mid-size establishments

Chart 1. Occupational Injury and Illness incidence rates for total cases, lost workday cases, and nonfatal cases without lost workdays, private industry, 1972-91

Incidence rates
per 100 full-time
workers

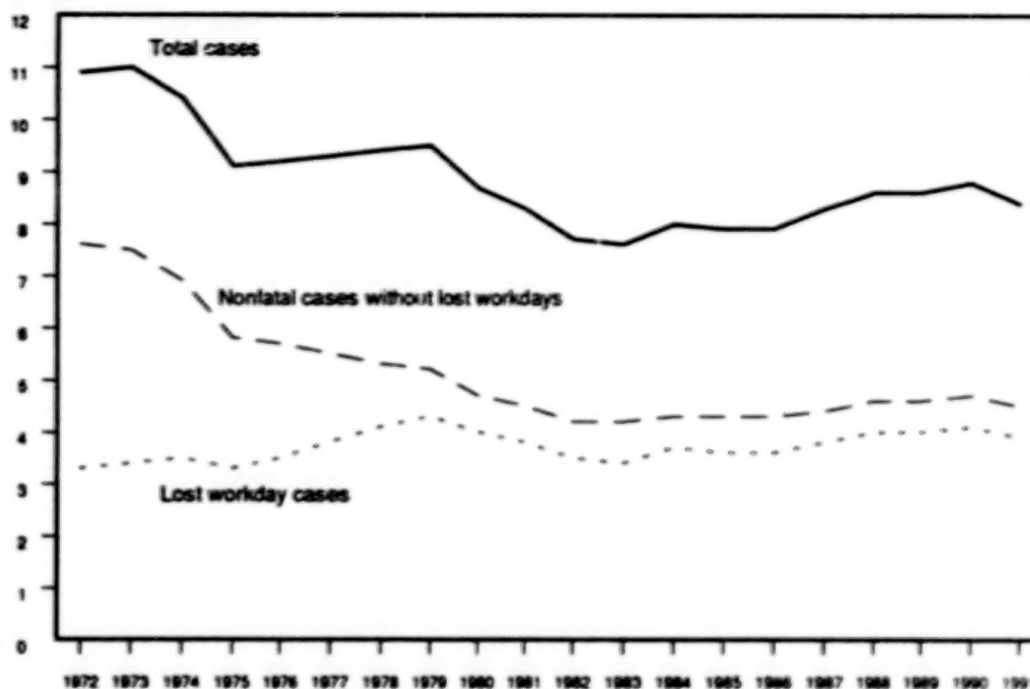
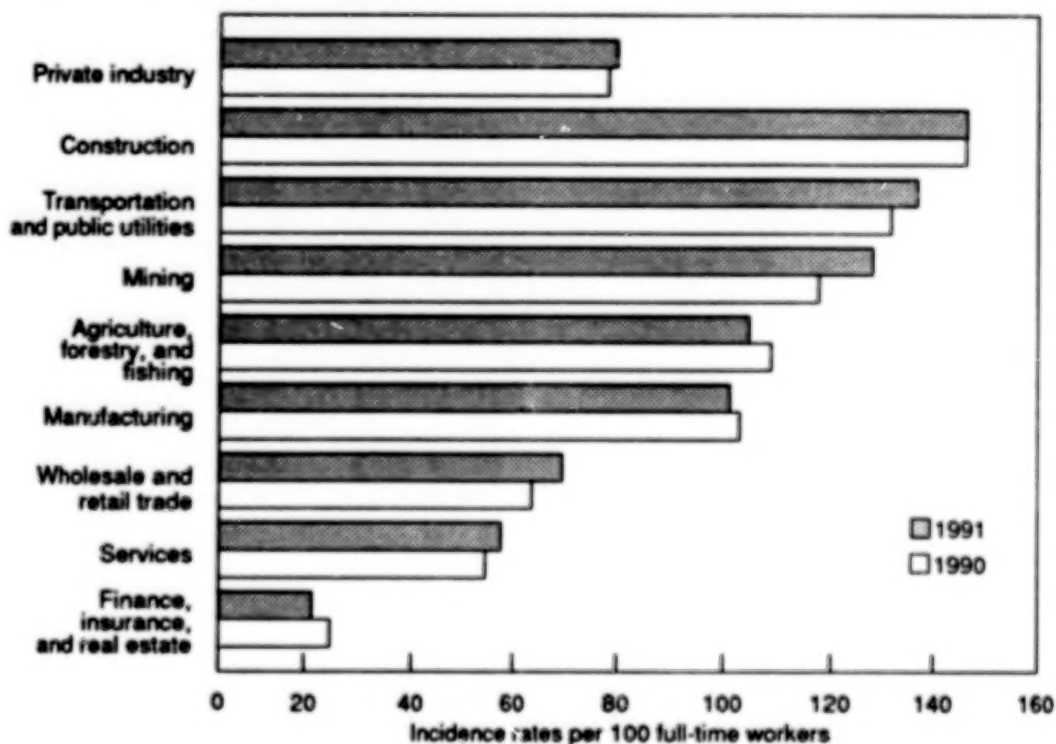


Chart 2. Occupational Injury incidence rates for lost workdays by industry division, private industry, 1990-91



(table 4). This pattern, however, did not hold for each industry division.

Text table 4. Industries with the highest lost workday case incidence rates¹ for injuries only, private industry, 1991

Industry ²	SIC code ³	Incidence rate
Ship building and repairing	3731	18.4
Meat packing plants	2011	14.4
Special product sawmills, n.e.c.	2429	13.7
Household appliances, n.e.c.	3639	12.4
Prefabricated wood buildings	2452	12.1
Vitreous plumbing fixtures	3261	11.9
Structural wood members, n.e.c.	2439	11.9
Raw cane sugar	2061	11.4
Bottled and canned soft drinks	2086	11.4
Metal barrels, drums, and pails	3412	11.1
Mattresses and bedsprings	2515	11.1
Aluminum foundries	3365	10.8
Metal sanitary ware	3431	10.6
Cottonseed oil mills	2074	10.5
Leather tanning and finishing	3111	10.2
Steel foundries, n.e.c.	3325	10.2
Gray and ductile iron foundries	3321	10.0
Wood pallets and skids	2448	9.9
Logging	2411	9.9
Secondary nonferrous metals	3341	9.9
Miscellaneous transportation services	478	9.9
Truck trailers	3715	9.8
Animal and marine fats and oils	2077	9.8
Rice milling	2044	9.8
Aluminum die-castings	3363	9.6
Malt	2083	9.6
Nonferrous die-castings, except aluminum	3364	9.5
Steel springs, except wire	3493	9.5
Plastics plumbing fixtures	3088	9.4
Mobile homes	2451	9.4
Fabricated structural metal	3441	9.3
Iron and steel forgings	3462	9.3
Nailed wood boxes and shooks	2441	9.3
Copper foundries	3366	9.1

¹ The incidence rates represent the number of injuries per 100 full-time workers. See Appendix B for method of calculation.

² High-rate industries were those having the 20 highest lost workday case incidence rates for injuries only at the most detailed or lowest SIC level at which rates were calculated and published. Based on this comparison, the highest rates were all reported in manufacturing industries, except SIC 478 (miscellaneous transportation services industry). Generally, manufacturing industries were calculated at the 4-digit code level based on the *Standard Industrial Classification Manual*, 1987 Edition. Agriculture, forestry, and fishing were calculated at the 2-digit level; and the remaining industries at the 3-digit level.

³ *Standard Industrial Classification Manual*, 1987 Edition.
n.e.c. = not elsewhere classified.

Lost worktime injuries

Two measures are currently used as estimates of worktime lost per 100 full-time workers: (1) lost workday cases, which primarily measures the occurrence of more serious incidents; and (2) lost workdays, which indicates the se-

verity of cases. Lost workdays include days away from work, days of restricted work activity, or both. Restricted work activity, for example, assignment of the employee to lighter work, occurs when the employee, because of the work-related injury, is unable to perform all or any part of his or her normal assignment during all or any part of the normal workday or shift.

Injuries are not considered lost workday cases unless they affect the employee beyond the day of injury. The count of the number of days away from work or days of restricted work activity does not include: (1) the initial day of injury; or (2) any days on which the employee would not have worked even though able to work (weekends, holidays, vacations, etc.).¹

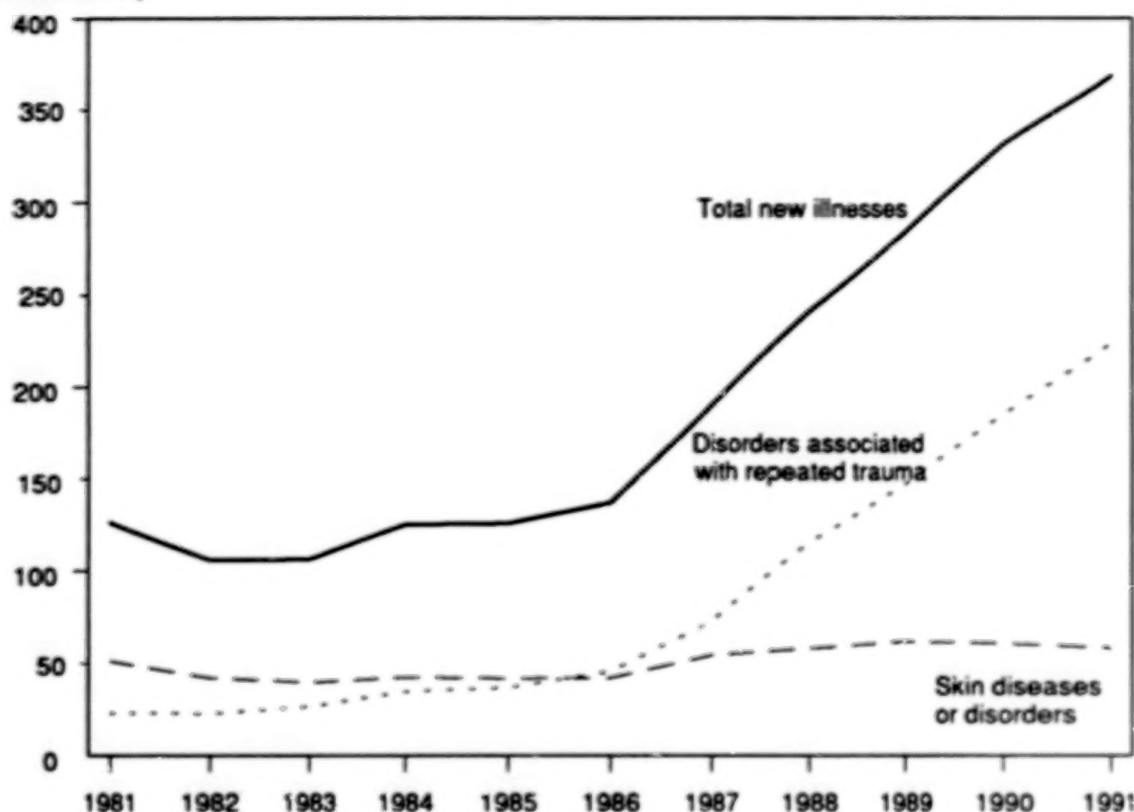
Number of cases and incidence rates. Of the almost 6.0 million occupational injuries reported in private industry, nearly one-half (almost 2.8 million cases) were serious enough for the injured worker to lose worktime or to experience restricted work activity, or both. These cases resulted in approximately 60 million lost workdays in 1991.

Lost workday injuries occurred at a rate of 3.7 cases per 100 full-time workers in 1991. The corresponding lost workdays rate during the year was 79.8. Among industry divisions, lost workday injury case rates ranged from 1.0 in finance, insurance, and real estate to 6.0 in construction. The lost workday rates varied from 21.5 in finance, insurance, and real estate to 146.2 in construction (chart 2). Table 5 presents incidence rates for lost workday cases and lost workdays by industry.

Industries with high rates. During 1991, the industries with the 20 highest lost workday case incidence rates for injuries in private industry were mainly in manufacturing. However, one transportation industry—miscellaneous transportation services—was also among this group (text table 4).

¹ The count of days lost or restricted continues until the disabled worker resumes regular job duties, is permanently reassigned to another job, or a final determination is made that the employee is totally disabled.

State workers' compensation systems, in contrast, commonly follow guidelines that differ from the recordkeeping of the Federal Occupational Safety and Health Administration in determining which cases should be filed and the duration of those disabling cases. In Michigan, for example, a worker disabled on the job initially is eligible for workers' compensation if absent from work for more than 7 days after the date of injury or onset of illness (excluding the day of the incident and Sunday). The "duration" of such cases coincides with the duration of workers' compensation, which might span several years and relate to recurring episodes of the initial disability. Federal OSHA guidelines, in contrast, include all cases involving 1 day away from work or more, beyond the day of injury or onset of illness. The duration of such a case corresponds to the employer's estimate of the number of workdays lost or restricted due to that single incident, regardless of State workers' compensation regulations.

Chart 3. Number of new occupational illnesses, private industry, 1981-91Number of cases
(in thousands)

Illnesses

An occupational illness is any abnormal condition or disorder, other than one resulting from an occupational injury, caused by exposure to factors associated with employment. Included are acute and chronic illnesses or dis-

eases which may be caused by inhalation, absorption, ingestion, or direct contact.

The survey seeks to measure the number of new work-related illness cases which are recognized, diagnosed, and reported during the year. Some conditions, for example, long-term latent illnesses caused by exposure to carcino-

Text table 5. Percent distribution of new cases of reported occupational illnesses by category of illness, private industry, 1981-91

Category	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Total illness cases	100	100	100	100	100	100	100	100	100	100	100
Skin diseases or disorders	41	40	37	34	33	30	28	24	22	18	16
Dust diseases of the lungs	2	2	2	1	1	2	2	1	1	1	1
Respiratory conditions due to toxic agents	9	8	7	9	9	9	8	7	7	6	5
Poisoning	4	3	3	4	3	3	3	2	2	2	2
Disorders due to physical agents	9	8	8	7	7	7	7	7	6	6	5
Disorders associated with repeated trauma	18	21	25	28	29	33	38	48	52	56	61
All other occupational illnesses	17	18	17	17	16	15	14	11	10	11	11

NOTE: Because of rounding, components may not add to totals.

Text table 6. Industries with the highest number of new illness cases of disorders associated with repeated trauma, private industry, 1991

(in thousands)

Industry ¹	SIC code ²	1991
Meat products	201	36.9
Motor vehicles and equipment	371	27.6
Men's and boys' furnishings	232	6.6
Aircraft and parts	372	6.4
Miscellaneous plastics products, n.e.c.	308	4.6
Metal forgings and stampings	346	4.0
Household appliances	363	3.6
Electronic components and accessories	367	3.1
Knitting mills	225	2.9
Miscellaneous electrical equipment and supplies	369	2.8
Grocery stores	541	2.7
Ship and boat building and repairing	373	2.6

¹ Industries with the highest number of new illness cases of disorders associated with repeated trauma were determined by analysis of the number of cases at the 3-digit SIC code level. The analysis included those 3-digit industries which reported at least 2,500 cases of disorders associated with repeated trauma. Based on this comparison, the highest numbers were all reported in manufacturing industries, except SIC 541 (retail trade industry).

² *Standard Industrial Classification Manual*, 1987 Edition.
n.e.c. = not elsewhere classified.

gens, often are difficult to relate to the workplace and are not recognized and reported. These long-term latent illnesses are believed to be understated in the survey's illness measures. In contrast, the overwhelming majority of the newly reported illness cases are those which relate to workplace activity (for example, contact dermatitis or carpal tunnel syndrome) and are easy to identify.

Number and distribution

In 1991, approximately 368,300 new cases of occupational illnesses were reported in private industry. Table 8 presents the number reported by industry division and category of illness. Appendix B lists the categories used to classify occupational illnesses, along with examples of each category.

Manufacturing accounted for more than 255,000 cases or nearly seven-tenths of the total new illness cases reported in 1991. The next leading contributor was the services industry with approximately one-seventh of the new illness cases.

Disorders associated with repeated trauma (for example, conditions due to repeated pressure, vibration, or motion such as carpal tunnel syndrome) made up slightly more than six-tenths (about 223,600 cases) of all new illness cases in 1991. Over the past several years, disorders associated with repeated trauma have significantly increased in number and as a percent of total new illness cases reported (chart 3). Text table 5 presents the percent

Text table 7. Industries with the highest illness incidence rates¹ of new cases of disorders associated with repeated trauma, private industry, 1991

Industry ²	SIC code ³	Incidence rate
Meat packing plants	2011	1,493.7
Poultry slaughtering and processing	2015	665.1
Motor vehicles and car bodies	3711	558.0
Knit underwear mills	2254	510.1
Household refrigerators and freezers	3632	485.2
Men's and boys' trousers and slacks	2325	469.5
Household laundry equipment	3633	438.7
Men's and boys' underwear and nightwear	2322	423.5
Men's and boys' work clothing	2326	400.3
Sausages and other prepared meats	2013	381.7
Automotive stampings	3465	342.1
Motorcycles, bicycles, and parts	3751	340.6
Luggage	3161	329.2
Household vacuum cleaners	3635	328.5
Engines, electrical equipment	3694	314.7
Household appliances, n.e.c.	3639	308.4
Automotive and apparel trimmings	2396	305.8
Chewing gum	2067	286.7
Men's footwear, except athletic	3143	284.4
Motor vehicle parts and accessories	3714	271.2
Small arms	3484	262.7
Ophthalmic goods	3851	256.9
Potato chips and similar snacks	2096	249.7
Footwear cut stock	3131	233.7
Lawn and garden equipment	3524	230.6

¹ The incidence rates represent the number of new cases of disorders associated with repeated trauma per 10,000 full-time workers and were calculated as: $(N/EH) \times 20,000,000$ where,

N = number of new cases of disorders associated with repeated trauma,

EH = total hours worked by all employees during the calendar year,

20,000,000 = base for 10,000 full-time workers (working 40 hours per week, 50 weeks per year).

² High-rate industries were those having the 25 highest incidence rates at the most detailed or lowest SIC code level for which rates are calculated. Based on this comparison, the highest rates were all reported in manufacturing industries. Generally, manufacturing industries were calculated at the 4-digit code level based on the *Standard Industrial Classification Manual*, 1987 Edition. Agriculture, forestry, and fishing were calculated at the 2-digit level; and the remaining industries at the 3-digit level.

³ *Standard Industrial Classification Manual*, 1987 Edition.
n.e.c. = not elsewhere classified.

distribution of new cases of reported occupational illnesses by category of illness for 1981-91.

During 1991, the industries with the highest number of new illness cases of disorders associated with repeated trauma were mainly in manufacturing. The exception was grocery stores in the retail trade industry (text table 6).

Incidence rates

New occupational illnesses in private industry occurred at a rate of 49.0 per 10,000 full-time workers during 1991 (table 7). Incidence rates by industry division ranged from

12.9 per 10,000 full-time workers in wholesale and retail trade to 144.0 in manufacturing.

Industries having high rates for disorders associated with repeated trauma

During 1991, the industries with the 25 highest reported illness incidence rates for new cases of disorders associated with repeated trauma were in manufacturing (text table 7). These industries were determined by comparing cases at the most detailed industry level at which rates were calculated.

Fatalities

Scope and classification by associated object or event

Data for fatalities from the annual survey represent establishments in private industry with 11 employees or more. This differs from the scope of the nonfatal occupational injury and illness data with the exception of the agriculture, forestry, and fishing industry division. Also, the Mine Safety and Health Administration of the U.S. Department of Labor and the Federal Railroad Administration of the U.S. Department of Transportation, which supplied data on fatalities in coal, metal and nonmetal mining and railroads, did not provide data on the associated objects or events which resulted in work-related deaths as do annual survey respondents.

Fatality data from the annual survey are classified into broad categories by associated object or event. Tables 10 and 11 present estimates of the percentage of fatalities by associated object or event; these data are combined averages of 1990 and 1991. Percentages were calculated for the 2 years combined because large sampling errors at the industry level preclude precise comparisons based on year-to-year changes.

Fatalities are difficult to measure in an establishment survey where the sample size is about 250,000 establishments. The Bureau believes that the count of fatalities from the annual survey presented in this publication (text table 8 and table 9) significantly understates job-related deaths for the year.

To provide more complete data on this basic element of workplace safety, the Bureau has developed the Census of Fatal Occupational Injuries (CFOI), which provides a systematic and verifiable count of fatally injured public and private sector workers. The CFOI program uses ad-

ministrative records such as death certificates, workers' compensation reports, medical examiners' records, autopsy reports, and other reports to Federal and State agencies to obtain descriptive data on the circumstances surrounding work-related fatal events. To ensure accuracy, descriptive data are also cross-checked between two independent sources and special inquiries are initiated when appropriate.²

Text table 8. Number and rate¹ of annual survey occupational fatalities for employers with 11 employees or more by industry division, private industry, 1990-91

Industry division	1990		1991	
	Fatalities	Incidence rate	Fatalities	Incidence rate
Private industry	2,900	4.3	2,800	4.3
Agriculture, forestry, and fishing	200	23.8	-	-
Mining	-	-	100	15.6
Construction	700	20.6	500	16.6
Manufacturing	500	2.8	600	3.5
Transportation and public utilities	500	10.0	400	8.1
Wholesale and retail trade	500	3.0	400	2.5
Finance, insurance, and real estate	-	-	-	-
Services	300	1.7	600	3.4

¹ The incidence rates represent the number of fatalities per 100,000 full-time workers and were calculated as: $(N/EH) \times 200,000,000$ where:

N = number of fatalities.

EH = total hours worked by all employees during the calendar year.

200,000,000 = base for 100,000 full-time workers (working 40 hours per week, 50 weeks per year).

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines. Because of rounding, components may not add to totals.

Number of fatalities in the annual survey and incidence rates

In 1991, about 2,800 work-related fatalities were reported in private industry establishments with 11 employees or more (text table 8). The fatality rate was 4.3 per 100,000 full-time workers.

² See Guy Toscano and Janice Windan, "Fatal Work Injuries: Census for 31 States," *Monthly Labor Review*, September 1992, pp. 3-9.

The Bureau of Labor Statistics is engaged in the final stages of a major redesign of its survey of workplace injuries and illnesses. The redesigned survey will provide details on who sustained workplace injuries and illnesses and how they occurred. Beginning with the 1992 survey year, the redesigned BLS Federal/State venture will make possible injury and illness profiles of women, teenagers, health care occupations, and other important worker groups and will help identify industry work hazards and exposures more effectively. Publications for survey year 1992 will be released beginning in the winter of 1993 through the summer of 1994.

The redesigned statistical program also will include a systematic and verifiable count of fatal injuries on the job and the circumstances surrounding these events. The data collected will be verified through the use of death certificates and other administrative records. Publication of data on fatal occupational injuries for 1992 is planned for the summer of 1993.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Private industry ⁶		90,573.8	8.8	8.4	4.1	3.9	4.7	4.5	84.0	86.5
Agriculture, forestry, and fishing ⁶		1,257.9	11.6	10.8	5.9	5.4	5.7	5.3	112.2	108.3
Agricultural production ⁶	01-02	n.a.	13.0	11.8	6.5	5.8	6.5	6.0	121.0	116.3
Agricultural services	07	n.a.	10.5	9.9	5.4	5.2	5.1	4.7	104.7	101.2
Forestry	08	n.a.	13.3	13.5	5.4	5.6	7.8	7.9	116.6	106.6
Fishing, hunting, and trapping	09	n.a.	6.0	6.7	3.9	4.0	2.0	2.6	87.9	114.7
Mining ⁷		690.3	8.3	7.4	5.0	4.5	3.3	2.8	119.5	129.6
Metal mining ⁷	10	56.2	6.8	6.5	4.1	3.9	2.7	2.6	61.7	82.0
Coal mining	12	135.1	10.8	11.1	8.2	8.3	2.6	2.8	141.7	187.6
Oil and gas extraction	13	394.1	8.0	6.4	4.2	3.5	3.8	2.9	137.8	133.8
Crude petroleum and natural gas	131	191.3	2.8	2.4	1.4	1.1	1.3	1.2	40.7	30.1
Oil and gas field services	138	197.9	12.8	10.0	6.7	5.6	6.1	4.4	228.3	227.9
Nonmetallic minerals, except fuels ⁷	14	104.9	7.1	7.0	4.2	4.1	2.9	2.8	61.8	74.1
Construction		4,684.6	14.2	13.0	6.7	6.1	7.5	6.9	147.9	148.1
General building contractors	15	1,151.8	13.4	12.0	6.4	5.5	6.9	6.4	137.6	132.0
Residential building construction	152	564.2	11.1	9.7	6.1	4.9	5.0	4.9	132.1	122.5
Operative builders	153	31.7	6.2	7.7	2.7	3.7	3.6	4.0	49.3	78.7
Nonresidential building construction	154	556.0	15.9	14.2	7.0	6.2	8.9	8.0	148.2	143.4
Heavy construction, except building	16	728.5	13.8	12.8	6.3	6.0	7.5	6.8	144.6	160.1
Highway and street construction	161	219.3	14.0	13.6	6.5	6.2	7.5	7.4	149.7	176.6
Heavy construction, except highway	162	509.2	13.7	12.4	6.2	5.9	7.5	6.5	142.3	153.2
Special trade contractors	17	2,804.3	14.7	13.5	6.9	6.3	7.8	7.1	153.1	151.3
Plumbing, heating, air-conditioning	171	614.7	15.7	14.1	6.6	5.8	9.1	8.3	124.6	133.8
Painting and paper hanging	172	159.2	9.3	9.9	5.3	5.7	4.0	4.2	153.7	165.4
Electrical work	173	517.8	13.4	12.6	5.2	5.1	8.2	7.5	106.3	107.5
Masonry, stonework, and plastering	174	416.1	17.1	14.7	8.7	7.5	8.4	7.1	200.5	189.8
Carpentry and floor work	175	176.2	13.1	13.2	7.0	7.0	6.0	6.2	141.7	156.2
Roofing, siding, and sheet metal work	176	191.5	18.0	16.7	9.7	8.9	8.4	7.8	253.2	245.7
Concrete work	177	n.a.	13.3	11.9	7.2	6.4	6.1	5.5	134.3	146.5
Water well drilling	178	n.a.	13.5	12.0	6.9	6.8	6.6	5.1	215.0	163.4
Miscellaneous special trade contractors	179	n.a.	14.6	13.4	7.0	6.3	7.6	7.0	171.6	153.2
Manufacturing		18,454.2	13.2	12.7	5.8	5.6	7.3	7.1	120.7	121.5
Durable goods		10,601.9	14.2	13.6	6.0	5.7	8.2	7.9	121.3	122.9
Lumber and wood products	24	678.9	18.1	16.8	8.8	8.3	9.2	8.5	172.5	172.0
Logging	241	78.1	17.5	15.9	10.8	10.0	6.6	5.8	281.0	279.5
Sawmills and planing mills	242	184.2	18.1	17.3	8.8	8.4	9.2	8.9	177.7	172.8
Sawmills and planing mills, general	2421	148.9	18.0	17.3	8.9	8.6	9.2	8.7	181.3	178.3
Hardwood dimension and flooring mills	2426	32.6	17.7	16.7	8.4	7.2	9.3	9.5	149.2	132.1
Special product sawmills, n.e.c.	2429	n.a.	25.2	25.1	14.5	14.2	10.7	10.9	347.5	374.5
Millwork, plywood and structural members	243	236.9	17.7	16.1	8.2	7.7	9.4	8.4	145.4	153.8
Millwork	2431	99.1	19.4	17.0	8.8	7.9	10.6	9.1	149.0	162.8
Wood kitchen cabinets	2434	64.9	14.5	14.5	6.9	6.8	7.6	7.7	121.1	124.3
Hardwood veneer and plywood	2435	22.3	17.8	15.2	7.7	7.4	10.1	7.8	137.7	162.5
Softwood veneer and plywood	2436	27.7	13.5	12.2	6.4	5.7	7.1	6.5	153.5	129.5
Structural wood members, n.e.c.	2439	n.a.	24.5	22.9	12.4	12.0	12.1	10.9	193.3	219.9
Wood containers	244	44.0	17.8	16.7	9.9	9.7	7.8	7.1	181.7	181.6
Nailed wood boxes and shooks	2441	n.a.	18.8	17.1	10.6	9.5	8.3	7.6	183.7	175.6
Wood pallets and skids	2448	n.a.	17.6	16.8	10.1	10.0	7.5	6.8	185.7	201.1
Wood containers, n.e.c.	2449	n.a.	17.9	16.2	9.1	8.2	8.8	8.1	165.9	103.5
Wood buildings and mobile homes	245	55.2	25.5	23.1	10.9	10.3	14.6	12.8	174.5	177.1
Mobile homes	2451	38.2	25.4	22.9	10.3	9.5	15.1	13.5	172.9	158.5
Prefabricated wood buildings	2452	n.a.	25.8	23.5	12.2	12.2	13.6	11.3	178.0	218.9

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Miscellaneous wood products	249	80.5	15.0	14.2	7.0	6.2	8.0	8.0	142.6	127.8
Wood preserving	2491	n.a.	16.4	16.5	8.3	7.5	8.1	9.0	166.4	140.9
Reconstituted wood products	2493	n.a.	11.3	11.8	5.1	5.4	6.2	6.4	115.4	122.2
Wood products, n.e.c.	2499	n.a.	16.0	14.4	7.4	6.1	8.6	8.3	147.0	126.4
Furniture and fixtures	25	472.0	16.9	15.9	7.8	7.2	9.2	8.7	139.2	131.2
Household furniture	251	270.5	15.8	15.7	7.1	6.9	8.7	8.7	120.3	118.8
Wood household furniture	2511	119.3	15.2	15.7	6.7	6.6	8.5	9.1	117.6	111.7
Upholstered household furniture	2512	88.8	14.7	13.8	6.5	6.0	8.2	7.8	99.8	103.1
Metal household furniture	2514	21.9	20.2	16.7	9.3	7.1	11.0	9.5	176.8	140.2
Mattresses and bedsprings	2515	27.8	18.8	21.0	9.2	11.4	9.6	9.6	151.7	180.9
Wood tv and radio cabinets	2517	n.a.	-	14.9	-	7.3	-	7.6	-	100.0
Household furniture, n.e.c.	2519	n.a.	14.7	14.7	6.8	6.7	7.8	8.0	147.0	137.1
Office furniture	252	61.6	20.0	15.7	9.4	7.5	10.6	8.2	189.1	167.6
Wood office furniture	2521	n.a.	16.1	14.0	8.0	7.1	8.0	6.9	137.5	134.6
Office furniture, except wood	2522	n.a.	24.1	17.2	10.8	7.8	13.3	9.4	241.9	197.6
Public building and related furniture	253	31.6	22.2	19.6	11.2	8.8	11.0	10.8	209.2	148.7
Partitions and fixtures	254	74.2	17.4	16.8	7.9	8.0	9.4	8.8	146.2	146.6
Wood partitions and fixtures	2541	n.a.	16.9	16.9	7.9	8.6	9.0	8.3	135.0	144.4
Partitions and fixtures, except wood	2542	n.a.	17.9	16.7	8.0	7.3	9.9	9.4	159.4	149.2
Miscellaneous furniture and fixtures	259	34.2	14.3	12.0	6.4	5.3	7.9	6.6	112.4	110.7
Draper hardware and blinds and shades	2591	n.a.	12.6	10.7	5.7	4.6	6.9	6.1	98.2	89.5
Furniture and fixtures, n.e.c.	2599	n.a.	16.6	13.7	7.4	6.4	9.2	7.4	131.9	140.9
Stone, clay, and glass products	32	523.9	15.4	14.8	7.3	6.8	8.1	8.0	160.5	156.0
Flat glass	321	16.7	24.0	21.7	8.7	7.7	15.4	14.0	134.4	140.6
Glass and glassware, pressed or blown	322	82.5	15.8	15.5	7.3	7.0	8.4	8.5	159.6	157.7
Glass containers	3221	38.2	17.1	17.1	8.5	8.6	8.6	8.5	187.7	188.9
Pressed and blown glass, n.e.c.	3229	44.3	14.5	14.1	6.2	5.7	8.3	8.5	133.4	132.6
Products of purchased glass	323	55.6	17.7	17.1	7.1	6.4	10.6	10.6	137.1	130.6
Structural clay products	325	32.4	17.1	15.9	8.1	7.4	9.0	8.5	185.4	196.5
Brick and structural clay tile	3251	n.a.	17.8	16.3	8.5	7.3	9.3	9.0	172.0	167.7
Ceramic wall and floor tile	3253	n.a.	17.0	14.8	8.0	7.8	9.0	7.1	193.6	205.8
Clay refractories	3255	n.a.	15.3	16.8	7.2	7.1	8.1	9.6	196.3	233.3
Structural clay products, n.e.c.	3259	n.a.	17.9	15.7	8.2	8.0	9.6	7.6	201.3	241.6
Pottery and related products	326	37.4	14.5	15.0	8.2	8.2	6.3	6.7	170.7	191.0
Vitreous plumbing fixtures	3261	n.a.	17.3	19.4	12.1	12.7	5.2	6.7	226.9	241.0
Porcelain electrical supplies	3264	n.a.	14.5	14.9	7.6	7.1	6.9	7.8	153.8	186.4
Pottery products, n.e.c.	3269	n.a.	10.8	9.1	6.0	5.3	4.8	3.8	124.1	119.1
Concrete, gypsum, and plaster products	327	189.9	15.5	14.7	7.7	7.1	7.7	7.5	185.2	169.7
Concrete block and brick	3271	17.0	17.3	15.3	7.9	7.9	9.3	7.4	175.3	200.6
Concrete products, n.e.c.	3272	64.5	20.2	18.3	10.6	8.7	9.6	9.6	211.9	192.4
Ready-mixed concrete	3273	91.6	13.1	13.2	6.5	6.7	6.6	6.5	186.4	164.8
Gypsum products	3275	n.a.	6.8	7.1	2.2	2.5	4.6	4.6	71.5	73.9
Cut stone and stone products	328	n.a.	12.9	13.5	6.7	6.4	6.2	7.1	142.1	113.1
Miscellaneous nonmetallic mineral products	329	77.5	12.4	12.0	5.8	5.6	6.6	6.4	116.3	127.9
Abrasive products	3291	20.4	13.3	11.9	6.8	5.8	6.5	6.1	138.2	132.5
Asbestos products	3292	4.6	11.4	-	6.5	-	4.9	-	103.1	-
Mineral wool	3296	22.8	10.3	11.5	3.9	4.9	6.4	6.5	83.3	107.8
Nonclay refractories	3297	n.a.	13.4	14.7	6.7	7.5	6.7	7.2	154.2	206.8
Nonmetallic mineral products, n.e.c.	3299	n.a.	13.6	12.1	6.9	5.8	6.7	6.3	130.3	110.4
Primary metal industries	33	725.7	19.0	17.7	8.1	7.4	10.9	10.4	180.2	169.1
Blast furnace and basic steel products	331	263.8	16.7	14.7	6.7	6.0	10.1	8.6	171.7	165.4
Blast furnaces and steel mills	3312	199.9	15.8	13.7	5.5	5.3	9.9	8.4	165.0	161.3
Electrometallurgical products	3313	n.a.	11.6	-	5.7	-	5.9	-	182.4	-

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Steel wire and related products	3315	n.a.	18.5	17.7	9.6	9.2	8.9	8.6	166.6	179.4
Cold finishing of steel shapes	3316	n.a.	24.3	20.0	9.4	9.1	14.9	10.9	222.7	192.0
Steel pipe and tubes	3317	24.6	19.3	17.8	9.0	8.3	10.3	9.5	192.5	178.8
Iron and steel foundries	332	126.2	27.3	27.7	11.3	10.4	16.0	17.3	211.8	209.4
Gray and ductile iron foundries	3321	76.4	30.5	31.3	11.6	10.7	18.9	20.6	207.4	199.5
Malleable iron foundries	3322	8.0	22.5	17.4	12.4	8.3	10.0	9.1	241.5	180.3
Steel investment foundries	3324	n.a.	19.9	-	9.4	-	10.5	-	194.9	-
Steel foundries, n.e.c.	3325	25.9	23.5	24.1	11.3	10.8	12.2	13.3	225.1	238.3
Primary nonferrous metals	333	44.2	21.0	19.3	6.8	6.2	14.1	13.2	147.8	153.4
Primary copper	3331	n.a.	12.7	12.3	4.8	4.1	7.9	8.2	182.2	123.2
Primary aluminum	3334	24.8	26.4	23.5	7.6	6.8	18.8	16.7	150.7	158.6
Primary nonferrous metals, n.e.c.	3339	n.a.	14.9	15.0	6.4	6.1	8.4	8.9	128.2	157.4
Secondary nonferrous metals	334	n.a.	24.1	21.6	12.2	10.2	11.8	11.5	243.4	184.2
Nonferrous rolling and drawing	335	168.1	14.5	13.8	6.7	6.1	7.8	7.7	162.1	139.5
Copper rolling and drawing	3351	23.1	15.1	15.0	7.6	7.2	7.4	7.7	180.1	191.2
Aluminum sheet, plate, and foil	3353	27.7	14.0	11.7	4.7	4.3	9.2	7.4	94.3	101.1
Aluminum extruded products	3354	n.a.	14.6	15.1	7.0	7.4	7.6	7.6	127.1	142.5
Aluminum rolling and drawing, n.e.c.	3355	n.a.	15.5	-	4.2	-	11.3	-	154.2	-
Nonferrous rolling and drawing, n.e.c.	3356	n.a.	11.9	-	5.3	-	6.6	-	114.8	-
Nonferrous wiredrawing and insulating	3357	71.1	15.0	15.2	7.4	6.5	7.6	8.7	209.6	158.9
Nonferrous foundries (castings)	336	79.3	21.2	19.7	10.2	10.0	11.0	9.7	202.6	189.4
Aluminum die-castings	3363	n.a.	21.4	20.9	10.2	10.4	11.2	10.5	212.0	209.2
Nonferrous die-casting except aluminum	3364	n.a.	23.3	18.5	11.6	10.3	11.7	8.3	217.7	209.1
Aluminum foundries	3365	23.1	22.2	21.3	10.8	11.1	11.3	10.2	192.8	175.1
Copper foundries	3366	n.a.	21.0	19.4	9.8	9.4	11.1	10.0	209.3	201.2
Nonferrous foundries, n.e.c.	3369	n.a.	15.7	13.2	7.1	5.8	8.7	7.4	172.1	121.6
Miscellaneous primary metal products	339	n.a.	16.9	16.0	8.3	7.4	8.6	8.6	174.8	167.6
Metal heat treating	3398	n.a.	18.3	16.5	8.8	7.6	9.6	8.9	162.7	142.1
Primary metal products, n.e.c.	3399	n.a.	15.1	15.2	7.7	7.2	7.3	8.1	190.4	201.6
Fabricated metal products	34	1,358.8	18.7	17.4	7.9	7.1	10.8	10.2	155.7	146.6
Metal cans and shipping containers	341	48.5	19.7	16.5	8.0	6.7	11.7	9.9	163.3	133.6
Metal cans	3411	39.1	18.3	15.2	7.2	5.6	11.1	9.6	151.3	115.3
Metal barrels, drums, and pails	3412	n.a.	25.4	22.1	11.2	11.1	14.1	10.9	211.8	209.2
Cutlery, handtools, and hardware	342	124.0	15.7	14.6	6.5	6.0	9.2	8.6	139.1	157.4
Cutlery	3421	n.a.	13.2	14.8	6.3	6.9	6.8	7.8	133.5	146.2
Hand and edge tools, n.e.c.	3423	n.a.	16.3	14.4	6.5	6.1	9.9	8.3	129.2	125.0
Saw blades and handsaws	3425	42.3	11.8	12.9	5.8	5.8	6.1	7.1	129.5	136.5
Hardware, n.e.c.	3429	70.0	16.2	14.9	6.6	5.9	9.6	9.0	146.2	177.9
Plumbing and heating, except electric	343	56.2	18.9	20.3	7.1	6.8	11.8	13.5	147.5	142.9
Metal sanitary ware	3431	n.a.	31.5	42.0	7.4	11.1	24.1	30.8	161.8	204.7
Plumbing fixture fittings and trim	3432	25.0	13.1	11.2	6.7	4.9	6.4	6.3	139.5	115.8
Heating equipment, except electric	3433	18.5	17.5	17.3	7.4	6.3	10.0	11.0	147.5	136.1
Fabricated structural metal products	344	409.5	20.8	19.0	9.5	8.0	11.3	10.9	175.2	155.5
Fabricated structural metal	3441	74.8	23.6	20.9	11.7	9.5	11.9	11.5	210.4	171.9
Metal doors, sash, and trim	3442	70.7	18.3	19.2	7.9	7.5	10.4	11.8	158.0	146.0
Fabricated plate work (boiler shops)	3443	106.0	22.8	20.3	10.1	8.8	12.7	11.5	192.6	177.3
Sheet metalwork	3444	95.2	19.2	17.5	8.2	7.0	11.0	10.5	148.1	137.3
Architectural metal work	3446	26.9	20.4	16.2	10.4	7.2	10.0	9.0	191.4	126.7
Prefabricated metal buildings	3448	n.a.	17.3	14.8	8.2	6.6	9.1	8.3	137.6	135.4
Miscellaneous metal work	3449	n.a.	-	17.8	-	7.6	-	10.2	-	150.2
Screw machine products, bolts, etc.	345	90.4	15.0	15.2	5.6	5.9	9.4	9.3	109.5	113.3
Screw machine products	3451	43.4	14.2	13.6	5.4	5.1	8.8	8.5	106.8	85.3
Bolts, nuts, rivets, and washers	3452	47.0	15.7	16.7	5.7	6.7	9.9	10.0	112.0	138.6
Metal forgings and stampings	346	212.8	23.9	22.4	8.7	8.3	15.2	14.1	183.4	178.8
Iron and steel forgings	3462	31.6	22.4	20.7	9.9	9.7	12.5	10.9	194.4	233.0
Nonferrous forgings	3463	n.a.	20.5	19.4	8.6	8.4	11.8	11.0	211.2	234.9
Automotive stampings	3465	94.1	29.3	27.5	9.3	9.1	20.0	18.3	211.2	200.9
Crowns and closures	3466	n.a.	-	14.2	-	6.9	-	7.3	-	144.0

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Metal stampings, n.e.c.	3469	76.4	18.4	17.7	7.4	6.6	11.0	11.1	139.3	127.7
Metal services, n.e.c.	347	116.3	16.2	14.6	8.2	7.1	8.0	7.5	146.1	132.9
Plating and polishing	3471	71.8	16.0	14.2	8.0	6.5	8.0	7.7	139.3	118.5
Metal coating and allied services	3479	44.5	16.6	15.1	8.6	8.1	8.0	7.1	157.5	155.5
Ordinance and accessories, n.e.c.	348	70.0	11.2	9.2	4.6	3.8	6.6	5.4	116.3	94.4
Small arms ammunition	3482	n.a.	9.3	-	2.7	-	6.5	-	65.8	-
Ammunition, except for small arms, n.e.c.	3483	43.4	10.8	8.2	4.2	3.4	6.6	4.8	128.0	91.0
Small arms	3484	n.a.	16.8	15.8	8.6	6.4	8.2	9.4	146.3	136.9
Ordinance and accessories, n.e.c.	3489	n.a.	5.8	-	2.1	-	3.7	-	44.1	-
Miscellaneous fabricated metal products	349	231.0	16.3	15.5	7.1	6.8	9.2	8.8	139.7	134.7
Industrial valves	3491	n.a.	15.4	15.0	5.6	6.5	9.7	8.5	118.4	143.9
Fluid power valves and hose fittings	3492	n.a.	13.4	13.5	4.2	5.4	9.2	8.1	100.9	91.9
Steel springs, except wire	3493	n.a.	21.7	16.8	11.9	9.9	9.9	6.9	231.6	185.1
Valves and pipe fittings, n.e.c.	3494	28.4	16.4	15.8	8.1	6.6	8.3	9.2	149.2	124.3
Wire springs	3495	n.a.	12.1	14.0	4.4	5.4	7.7	8.6	88.7	87.4
Miscellaneous fabricated wire products	3496	51.0	18.5	15.1	9.1	7.0	9.3	8.1	168.6	152.3
Metal foil and leaf	3497	n.a.	14.2	13.6	5.7	6.0	8.5	7.6	136.5	122.0
Fabricated pipe and fittings	3498	n.a.	18.6	17.3	8.5	7.8	10.2	9.5	152.3	169.7
Fabricated metal products, n.e.c.	3499	n.a.	15.8	16.7	6.7	7.1	9.2	9.6	135.0	131.5
Industrial machinery and equipment	35	2,006.9	12.0	11.2	4.7	4.4	7.3	6.8	88.9	86.6
Engines and turbines	351	89.3	11.9	12.5	4.4	4.0	7.5	8.5	91.2	89.6
Turbines and turbine generator sets	3511	27.8	10.8	12.7	3.8	3.6	7.1	9.1	75.5	68.9
Internal combustion engines, n.e.c.	3519	61.5	12.4	12.4	4.7	4.3	7.6	8.2	98.2	99.7
Farm and garden machinery	352	99.1	19.3	16.9	7.6	6.3	11.6	10.6	125.5	111.4
Farm machinery and equipment	3523	74.2	18.8	16.5	7.7	6.4	11.1	10.1	125.1	117.0
Lawn and garden equipment	3524	n.a.	20.5	17.9	7.5	5.7	13.0	12.2	126.5	95.1
Construction and related machinery	353	217.9	16.1	15.2	6.3	6.0	9.7	9.2	114.7	110.9
Construction machinery	3531	78.4	15.5	15.3	5.8	5.7	9.7	9.6	109.6	111.7
Mining machinery	3532	17.1	19.9	16.7	9.1	6.9	10.8	9.8	151.2	149.7
Oil and gas field machinery	3533	45.1	15.0	13.5	5.5	5.4	9.6	8.0	105.2	98.4
Elevators and moving stairways	3534	n.a.	12.1	12.1	5.7	4.6	6.4	7.5	95.4	107.8
Conveyors and conveying equipment	3535	33.0	15.9	16.5	5.9	6.4	9.9	10.1	104.2	100.0
Hoists, cranes, and monorails	3536	n.a.	20.6	15.3	7.9	5.9	12.7	9.4	150.1	122.1
Industrial trucks and tractors	3537	25.4	17.6	16.4	7.9	7.2	9.7	9.2	133.0	117.1
Metalworking machinery	354	313.6	11.9	11.2	4.2	3.9	7.7	7.3	83.8	74.6
Machine tools, metal cutting types	3541	41.5	11.8	10.6	4.2	4.0	7.5	6.6	88.1	61.6
Machine tools, metal forming types	3542	17.2	15.2	13.1	5.4	5.2	9.9	7.9	89.9	115.7
Special dies, tools, jigs and fixtures	3544	141.7	11.9	11.7	4.0	3.7	7.9	8.0	77.2	62.6
Machine tool accessories	3545	52.6	11.2	10.0	4.0	3.4	7.3	6.5	92.6	73.7
Power-driven handtools	3546	21.6	9.0	9.6	3.6	3.5	5.4	6.1	81.7	100.9
Rolling mill machinery	3547	n.a.	15.0	16.1	4.5	6.2	10.5	10.0	82.6	142.0
Welding apparatus	3548	n.a.	12.1	10.6	5.1	3.9	7.0	6.6	105.9	104.2
Metalworking machinery, n.e.c.	3549	n.a.	12.9	13.6	4.8	4.9	8.1	8.7	79.0	91.3
Special industry machinery	355	149.4	13.3	12.0	5.2	4.6	8.1	7.4	89.2	86.1
Textile machinery	3552	16.9	14.4	13.3	4.8	4.2	9.7	9.1	73.8	73.4
Woodworking machinery	3553	n.a.	16.5	15.0	6.5	4.8	10.0	10.1	122.3	81.1
Paper industries machinery	3554	n.a.	14.5	13.7	5.2	6.1	9.3	7.6	97.7	102.5
Printing trades machinery	3555	23.9	8.2	8.1	3.5	3.3	4.8	4.8	65.1	65.8
Food products machinery	3556	22.4	16.3	14.4	5.9	5.7	10.4	8.6	98.8	113.2
Special industry machinery, n.e.c.	3559	n.a.	13.0	11.4	5.5	4.4	7.5	7.0	92.1	83.5
General industrial machinery	356	239.5	14.2	13.7	5.7	5.5	8.5	8.2	105.5	107.1
Pumps and pumping equipment	3561	31.3	13.3	10.6	5.7	4.5	7.6	6.2	123.3	87.4
Ball and roller bearings	3562	40.5	12.1	11.2	4.3	3.8	7.9	7.4	82.4	83.6
Air and gas compressors	3563	25.1	12.3	13.9	4.3	4.7	8.0	9.2	85.2	86.6
Blowers and fans	3564	31.2	18.4	16.3	7.4	6.5	11.0	9.8	125.1	141.6
Packaging machinery	3565	n.a.	11.8	12.1	4.3	4.6	7.5	7.6	60.2	66.3
Speed changers, drives, and gears	3566	15.2	16.9	17.6	7.3	7.5	9.5	10.1	136.0	124.1
Industrial furnaces and ovens	3567	n.a.	16.4	15.3	6.1	5.5	10.3	9.8	91.1	86.7
Power transmission equipment, n.e.c.	3568	18.9	14.3	15.6	7.3	7.1	7.0	8.5	160.1	140.7
General industrial machinery, n.e.c.	3569	n.a.	14.4	14.2	5.9	6.7	8.4	7.6	106.4	141.2

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Computer and office equipment	357	416.6	3.5	3.8	1.8	1.8	1.7	2.1	40.8	40.3
Electronic computers	3571	258.8	2.5	2.8	1.4	1.3	1.1	1.5	35.2	30.0
Computer storage devices	3572	n.a.	5.2	4.8	2.3	2.2	2.9	2.6	50.0	62.7
Computer terminals	3575	n.a.	4.7	-	2.4	-	2.3	-	68.3	-
Computer peripheral equipment, n.e.c.	3577	n.a.	4.5	4.1	2.5	2.2	2.0	1.9	41.4	46.9
Refrigeration and service machinery	358	169.2	16.2	15.6	6.4	6.6	9.8	9.0	126.9	135.4
Automatic vending machines	3581	n.a.	20.2	13.9	8.5	6.4	11.7	7.4	189.5	180.7
Commercial laundry equipment	3582	n.a.	14.2	12.3	4.7	5.6	9.4	6.7	76.5	97.6
Refrigeration and heating equipment	3585	114.9	16.8	16.5	6.6	6.8	10.2	9.7	131.5	137.1
Measuring and dispensing pumps	3586	n.a.	12.0	15.1	4.6	6.2	7.4	9.0	93.9	120.5
Service industry machinery, n.e.c.	3589	n.a.	14.6	13.7	5.8	6.4	8.8	7.2	113.6	129.7
Industrial machinery, n.e.c.	359	312.3	13.7	11.5	5.2	4.7	8.5	6.8	95.8	94.4
Carburetors, pistons, rings, valves	3592	22.4	17.0	13.6	7.4	5.5	9.6	8.1	161.6	116.7
Fluid power cylinders and actuators	3593	n.a.	14.7	12.7	4.8	5.1	9.9	7.6	78.6	132.8
Fluid power pumps and motors	3594	n.a.	14.7	10.7	5.8	4.8	8.9	5.9	115.8	93.3
Scales and balances, except laboratory	3596	n.a.	9.1	7.6	3.6	3.6	5.4	4.0	108.0	72.8
Industrial machinery, n.e.c.	3599	243.9	13.2	11.4	5.0	4.6	8.3	6.8	87.8	90.0
Electronic and other electric equipment	36	1,598.3	9.1	8.6	3.8	3.7	5.2	4.9	79.4	83.0
Electric distribution equipment	361	90.9	11.1	12.2	4.7	5.2	6.4	7.0	99.5	117.4
Transformers, except electronic	3612	46.3	11.9	13.1	4.6	5.7	7.3	7.4	108.9	139.1
Switchgear and switchboard apparatus	3613	44.6	10.2	11.2	4.8	4.6	5.4	6.6	89.8	94.9
Electrical industrial apparatus	362	161.7	10.8	9.8	4.2	4.1	6.6	5.7	97.7	96.7
Motors and generators	3621	79.4	12.3	12.3	4.8	5.1	7.5	7.2	120.9	109.0
Carbon and graphite products	3624	n.a.	8.7	11.4	4.0	5.4	4.7	6.0	82.2	150.1
Relays and industrial controls	3625	63.1	9.5	6.6	3.6	2.7	6.0	3.9	74.3	76.3
Electrical industrial apparatus, n.e.c.	3629	n.a.	8.3	7.2	3.7	3.8	4.6	3.4	73.3	64.3
Household appliances	363	117.1	18.2	17.6	7.1	7.1	11.1	10.5	135.3	142.1
Household cooking equipment	3631	n.a.	20.7	19.0	7.9	7.3	12.8	11.7	135.1	118.8
Household refrigerators and freezers	3632	25.7	20.3	18.1	7.8	7.5	12.5	10.6	142.2	147.3
Household laundry equipment	3633	20.6	21.4	17.7	6.9	6.9	14.5	10.8	133.0	120.5
Electric housewares and fans	3634	31.0	12.0	14.1	4.4	4.9	7.6	9.2	85.1	111.1
Household vacuum cleaners	3635	n.a.	12.3	12.0	5.8	5.3	6.6	6.7	207.0	201.8
Household appliances, n.e.c.	3639	n.a.	24.2	30.7	11.2	14.4	13.0	16.3	172.7	229.9
Electric lighting and wiring equipment	364	176.3	12.0	10.3	5.4	4.5	6.5	5.9	118.0	103.7
Electric lamps	3641	21.8	7.9	6.3	3.4	2.4	4.5	3.9	71.7	62.3
Current-carrying wiring devices	3643	68.8	9.8	9.0	4.8	4.1	5.0	4.9	104.2	97.5
Noncurrent-carrying wiring devices	3644	16.6	17.2	14.4	7.9	6.4	9.3	8.1	145.3	123.6
Residential lighting fixtures	3645	20.1	12.5	10.7	6.2	5.1	6.2	5.5	139.4	136.8
Commercial lighting fixtures	3646	n.a.	14.4	11.7	6.5	5.3	7.9	6.4	134.0	115.6
Vehicular lighting equipment	3647	n.a.	17.4	13.5	6.0	4.6	11.3	8.9	113.0	118.9
Lighting equipment, n.e.c.	3648	n.a.	12.5	12.3	5.4	5.1	7.2	7.2	197.7	88.2
Household audio and video equipment	365	85.2	9.0	10.3	4.2	4.5	4.8	5.8	79.3	97.1
Household audio and video equipment	3651	61.6	9.6	10.8	4.2	4.6	5.4	6.2	80.0	102.1
Prerecorded records and tapes	3652	n.a.	7.4	9.3	4.3	4.3	3.1	5.0	77.3	85.7
Communications equipment	366	251.5	5.3	4.4	2.4	2.0	2.9	2.4	49.4	45.6
Telephone and telegraph apparatus	3661	118.0	5.0	4.1	2.4	1.8	2.6	2.2	49.8	40.9
Radio and tv communications equipment	3663	n.a.	5.1	4.3	2.1	1.9	3.0	2.4	43.2	43.0
Communications equipment, n.e.c.	3669	n.a.	7.3	6.6	3.2	3.4	4.1	3.3	76.5	81.0
Electronic components and accessories	367	557.5	6.5	6.3	2.8	2.8	3.7	3.4	54.5	64.1
Electron tubes	3671	28.6	13.8	13.0	6.4	7.5	7.5	5.4	130.6	168.0
Printed circuit boards	3672	n.a.	7.9	7.1	3.3	3.7	4.6	3.4	56.6	64.4
Semiconductors and related devices	3674	233.5	4.5	4.7	2.0	2.0	2.5	2.7	39.4	51.2
Electronic capacitors	3675	n.a.	7.6	5.2	3.4	1.9	4.2	3.3	62.2	37.5
Electronic resistors	3676	n.a.	6.2	-	2.6	-	3.5	-	63.2	-
Electronic coils and transformers	3677	n.a.	8.6	9.9	3.8	3.5	4.9	6.4	69.3	78.4
Electronic connectors	3678	n.a.	8.2	8.2	3.6	3.8	4.6	4.4	74.9	78.0
Electronic components, n.e.c.	3679	134.6	6.9	6.6	2.8	2.9	4.1	3.7	56.1	67.7
Miscellaneous electrical equipment and supplies	369	158.3	11.2	10.9	4.7	4.7	6.5	6.2	100.7	104.0
Storage batteries	3691	27.9	17.0	15.7	8.1	7.1	8.9	8.6	181.4	189.6

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Primary batteries, dry and wet	3692	n.a.	6.1	8.6	3.2	3.7	2.9	4.9	78.2	76.4
Engine electrical equipment	3694	64.7	12.2	12.4	4.4	4.6	7.9	7.8	96.7	108.9
Magnetic and optical recording media	3695	n.a.	6.7	6.7	3.0	3.6	3.7	3.1	70.8	67.0
Electrical equipment and supplies, n.e.c.	3699	n.a.	8.2	7.4	3.8	3.8	4.3	3.7	65.1	58.3
Transportation equipment	37	1,891.1	17.8	18.3	6.9	7.0	10.9	11.3	153.7	166.1
Motor vehicles and equipment	371	789.0	23.0	23.4	8.3	8.0	14.7	15.4	189.1	192.5
Motor vehicles and car bodies	3711	315.7	26.8	26.3	8.9	9.6	17.9	18.8	229.5	244.8
Truck and bus bodies	3713	35.1	22.1	23.4	8.9	8.6	13.2	14.7	179.2	171.4
Motor vehicle parts and accessories	3714	397.7	20.1	19.8	7.6	6.7	12.5	13.1	159.2	158.2
Truck trailers	3715	24.2	24.0	25.5	10.4	10.1	13.6	15.4	196.3	171.9
Motor homes	3716	n.a.	20.7	16.9	8.2	6.8	12.5	10.0	136.7	133.3
Aircraft and parts	372	671.1	10.4	10.9	4.0	4.3	6.4	6.6	90.3	114.4
Aircraft	3721	357.3	10.0	10.2	3.9	4.2	6.1	6.0	95.3	128.2
Aircraft engines and engine parts	3724	143.2	9.3	10.0	4.2	4.3	5.1	5.7	89.5	91.3
Aircraft parts and equipment, n.e.c.	3726	170.6	11.3	12.9	3.9	4.4	8.0	8.5	80.5	105.3
Ship and boat building and repairing	373	177.7	38.7	37.6	17.0	17.3	21.8	20.3	363.9	367.9
Ship building and repairing	3731	131.0	46.2	44.1	20.1	20.2	26.2	23.8	454.1	426.6
Boat building and repairing	3732	46.7	21.5	18.5	9.8	8.6	11.6	9.9	156.4	193.6
Railroad equipment	374	30.2	21.8	21.1	9.5	9.1	12.3	12.0	219.3	199.3
Motorcycles, bicycles, and parts	375	n.a.	18.0	22.0	7.6	9.1	10.5	12.8	162.0	160.0
Guided missiles, space vehicles, parts	376	166.5	4.0	4.3	1.9	2.1	2.1	2.2	39.5	51.0
Guided missiles and space vehicles	3761	119.2	4.0	4.3	1.9	2.2	2.1	2.1	37.3	54.2
Space propulsion units and parts	3764	n.a.	4.4	4.5	2.2	2.0	2.2	2.5	48.7	44.1
Space vehicle equipment, n.e.c.	3769	n.a.	3.8	3.9	1.6	1.6	2.3	2.3	38.4	40.8
Miscellaneous transportation equipment	379	41.7	18.1	16.9	7.9	6.3	10.2	10.6	137.5	128.6
Travel trailers and campers	3792	15.7	20.3	20.7	7.6	7.1	12.6	13.6	138.6	138.4
Instruments and related products	38	980.0	5.9	6.0	2.7	2.7	3.2	3.3	57.8	64.4
Search and navigation equipment	381	263.6	3.8	4.5	1.6	1.9	2.1	2.6	36.9	47.1
Measuring and controlling devices	382	306.7	7.0	6.4	3.1	2.9	3.9	3.6	63.3	69.8
Laboratory apparatus and furniture	3821	n.a.	10.2	9.0	4.4	4.8	5.7	4.2	81.3	84.7
Environmental controls	3822	45.5	-	8.3	-	4.4	-	3.8	-	104.4
Process control instruments	3823	62.6	7.2	6.1	2.8	2.6	4.4	3.5	63.0	63.5
Fluid meters and counting devices	3824	n.a.	-	8.0	-	2.7	-	5.3	-	62.7
Instruments to measure electricity	3825	85.4	5.5	5.3	2.5	2.4	3.0	2.9	57.2	74.3
Analytical instruments	3826	n.a.	7.1	-	3.3	-	3.8	-	57.6	-
Measuring and controlling devices, n.e.c.	3829	n.a.	6.7	6.5	2.7	2.7	4.0	3.8	47.4	45.5
Medical instruments and supplies	384	259.5	7.1	6.8	3.4	3.2	3.7	3.6	79.8	75.5
Surgical and medical instruments	3841	109.5	6.4	5.2	3.5	2.5	2.9	2.7	90.7	61.6
Surgical appliances and supplies	3842	93.2	8.5	9.0	3.8	4.4	4.7	4.7	84.2	103.7
Dental equipment and supplies	3843	n.a.	8.1	10.2	3.4	4.7	4.7	5.4	65.5	90.8
Electromedical equipment	3845	n.a.	5.4	4.9	2.3	2.1	3.1	2.8	46.1	47.6
Ophthalmic goods	385	41.6	5.4	8.8	2.5	4.0	2.9	4.8	55.4	81.5
Photographic equipment and supplies	386	98.6	5.2	5.8	2.5	2.9	2.7	2.9	47.6	59.8
Watches, clocks, watchcases and parts	387	10.0	8.9	6.2	3.2	2.1	5.7	4.1	69.9	35.8
Miscellaneous manufacturing industries	39	366.3	11.3	11.3	5.1	5.1	6.2	6.2	113.1	104.0
Jewelry, silverware, and plated ware	391	50.2	5.5	6.3	2.5	2.7	3.1	3.7	54.1	48.7
Jewelry, precious metal	3911	36.8	4.6	5.4	1.8	2.0	2.8	3.4	39.5	41.0
Silverware and plated ware	3914	n.a.	10.9	13.5	5.7	6.8	5.2	6.7	139.3	114.5
Musical instruments	393	12.3	11.1	12.4	4.6	5.5	6.4	6.9	94.3	160.6
Toys and sporting goods	394	103.5	14.6	14.8	6.7	7.3	7.9	7.5	133.8	141.5
Games, toys, and children's vehicles	3944	42.4	17.3	14.2	8.6	7.0	8.8	7.2	177.5	142.3
Sporting and athletic goods, n.e.c.	3949	61.1	13.5	15.8	5.9	7.8	7.6	8.0	114.3	149.1

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Pens, pencils, office, and art supplies	395	33.0	11.1	9.5	5.3	4.3	5.8	5.2	143.9	98.2
Pens and mechanical pencils	3951	n.a.	12.0	9.6	3.8	3.5	8.1	6.1	121.5	86.6
Lead pencils and art goods	3952	n.a.	14.8	13.1	8.4	6.8	6.4	6.3	141.8	138.2
Carbon paper and inked ribbons	3955	n.a.	13.2	11.9	8.1	6.2	5.1	5.6	326.3	165.3
Costume jewelry and notions	396	31.5	6.5	6.9	2.9	3.4	3.6	3.5	85.7	86.0
Costume jewelry	3961	19.8	4.8	5.1	2.3	2.8	2.5	2.3	89.5	75.6
Fasteners, buttons, needles, and pins	3965	n.a.	9.3	9.9	4.0	4.4	5.4	5.6	79.7	102.7
Miscellaneous manufactures	399	135.9	12.1	11.8	5.3	5.0	6.8	6.8	120.3	95.4
Brooms and brushes	3991	n.a.	14.9	15.9	6.6	7.4	8.3	8.5	142.0	172.5
Signs and advertising specialties	3993	55.1	12.6	12.1	5.2	5.0	7.3	7.1	117.2	94.7
Manufacturing industries, n.e.c.	3999	n.a.	10.7	10.2	5.3	4.5	5.4	5.7	120.5	75.8
Nondurable goods		7,852.3	11.7	11.5	5.6	5.5	6.2	6.0	116.9	119.7
Food and kindred products	20	1,671.9	20.0	19.5	9.9	9.9	10.1	9.7	202.6	207.2
Meat products	201	425.1	31.1	30.0	14.8	15.0	16.3	15.0	301.5	324.6
Meat packing plants	2011	137.7	42.4	45.5	20.6	22.9	21.8	22.6	431.8	504.7
Sausages and other prepared meats	2013	86.4	22.7	20.8	12.9	10.9	9.7	9.8	265.7	221.2
Poultry slaughtering and processing	2015	202.0	26.9	23.1	11.6	11.2	15.2	11.8	225.2	242.3
Dairy products	202	155.9	17.1	16.2	9.2	8.5	8.0	7.8	189.0	174.5
Creamery butter	2021	n.a.	16.2	19.8	8.1	8.9	8.1	10.9	155.0	162.6
Cheese, natural and processed	2022	41.7	18.9	16.4	9.8	8.3	9.1	8.1	175.5	140.3
Dry, condensed, evaporated products	2023	n.a.	11.7	12.0	5.9	5.9	5.8	6.1	114.4	152.9
Ice cream and frozen desserts	2024	n.a.	16.5	15.8	8.6	8.7	7.9	7.0	149.0	165.1
Fluid milk	2026	72.6	17.6	17.2	9.7	9.0	7.9	8.1	223.6	200.7
Preserved fruits and vegetables	203	251.6	18.0	16.6	8.6	7.8	9.4	8.8	161.8	134.8
Canned specialties	2032	23.1	20.4	18.8	8.1	8.6	12.2	10.2	147.6	156.1
Canned fruits and vegetables	2033	89.7	19.7	16.0	8.8	7.0	10.9	8.9	144.2	118.5
Dehydrated fruits, vegetables, soups	2034	n.a.	17.5	15.3	9.2	8.3	8.3	7.0	171.0	174.2
Pickles, sauces, and salad dressings	2035	n.a.	13.1	16.4	7.1	7.7	5.9	8.7	127.4	125.8
Frozen fruits and vegetables	2037	50.6	14.9	16.7	7.7	7.8	7.2	9.0	164.5	137.9
Frozen specialties, n.e.c.	2038	n.a.	19.7	17.6	10.1	9.2	9.6	8.4	221.9	143.2
Grain mill products	204	129.3	13.1	13.4	6.2	6.9	6.9	6.5	128.5	158.5
Flour and other grain mill products	2041	20.8	11.3	12.0	6.0	6.1	5.3	5.9	137.2	151.9
Cereal breakfast foods	2043	n.a.	12.3	12.9	5.7	6.8	6.6	6.2	126.4	149.9
Rice milling	2044	n.a.	18.6	17.6	9.9	9.9	8.7	7.7	231.6	291.6
Prepared flour mixes and doughs	2045	n.a.	22.6	19.0	11.7	9.0	10.9	10.0	249.8	180.0
Wet corn milling	2046	n.a.	13.2	9.8	4.2	3.3	9.0	6.5	98.5	55.6
Dog and cat food	2047	n.a.	12.0	12.4	5.5	6.3	6.4	6.1	102.1	136.4
Prepared feeds, n.e.c.	2048	46.5	12.0	13.6	5.5	7.4	6.5	6.1	102.8	175.1
Bakery products	205	214.3	14.0	14.2	7.3	7.9	6.7	6.3	168.0	187.6
Bread, cake, and related products	2051	156.4	13.7	14.0	7.4	8.1	6.4	5.9	168.2	197.1
Cookies and crackers	2052	n.a.	14.4	14.4	7.1	7.0	7.3	7.4	172.0	155.9
Frozen bakery products, except bread	2053	57.9	16.9	17.2	8.0	8.6	8.9	8.6	144.1	197.5
Sugar and confectionery products	206	100.4	13.7	14.9	6.9	7.8	6.8	7.1	138.9	154.1
Raw cane sugar	2061	7.0	26.3	19.0	8.9	11.4	17.4	7.4	167.2	172.1
Cane sugar refining	2062	5.3	11.0	11.3	5.4	6.0	5.7	5.3	133.6	164.1
Beet sugar	2063	9.3	14.3	17.1	7.4	8.3	7.0	8.8	120.7	159.4
Candy and other confectionery products	2064	48.1	13.0	15.5	7.2	7.7	5.8	7.8	141.5	153.3
Chocolate and cocoa products	2066	n.a.	12.1	13.9	5.6	7.4	6.4	6.5	115.6	142.6
Chewing gum	2067	n.a.	12.9	15.0	6.6	8.6	6.3	6.4	199.1	185.5
Salted and roasted nuts and seeds	2068	n.a.	9.8	8.1	5.9	5.2	3.9	3.0	115.9	114.9
Fats and oils	207	31.1	15.4	15.5	7.9	7.2	7.5	9.3	170.0	155.9
Cottonseed oil mills	2074	n.a.	17.9	19.5	8.8	10.6	9.1	8.8	198.6	250.8
Soybean oil mills	2075	n.a.	12.4	14.6	4.9	4.6	7.5	10.0	107.1	76.4
Vegetable oil mills, n.e.c.	2076	n.a.	8.1	11.0	4.3	7.1	3.8	3.9	84.3	147.9
Animal and marine fats and oils	2077	n.a.	19.3	18.7	11.8	10.3	7.5	8.3	238.0	230.6
Edible fats and oils, n.e.c.	2079	n.a.	14.4	12.7	7.0	5.5	7.4	7.2	181.0	128.7
Beverages	208	182.4	18.6	18.6	9.7	9.3	8.9	9.3	186.3	184.9
Malt beverages	2082	39.9	16.4	18.5	6.5	6.4	9.9	12.1	155.0	150.5

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Malt	2083	n.a.	21.1	21.7	11.0	9.7	10.2	12.0	230.5	276.6
Wines, brandy, and brandy spirits	2084	n.a.	17.1	16.8	7.9	7.7	9.2	9.1	159.1	139.1
Distilled and blended liquors	2085	n.a.	15.6	15.3	7.9	7.4	7.7	7.9	163.5	139.6
Bottled and canned soft drinks	2086	98.7	21.5	20.3	12.2	11.5	9.3	8.8	224.6	222.5
Flavoring extracts and syrups, n.e.c.	2087	n.a.	7.7	11.4	3.6	5.7	4.1	5.7	49.9	96.8
Miscellaneous food and kindred products	209	180.8	16.7	16.5	8.7	8.2	8.0	8.2	183.5	174.1
Canned and cured fish and seafoods	2091	n.a.	20.7	-	10.3	-	10.4	-	122.9	-
Fresh or frozen prepared fish	2092	n.a.	22.5	21.0	11.5	9.9	11.0	11.1	186.7	171.6
Roasted coffee	2095	n.a.	10.4	7.6	5.0	3.8	5.5	3.8	82.0	87.0
Potato chips and similar snacks	2096	n.a.	17.6	17.1	9.8	9.3	7.8	7.8	249.9	239.0
Macaroni and spaghetti	2098	n.a.	14.5	-	7.6	-	7.0	-	163.5	-
Food preparations, n.e.c.	2099	n.a.	13.4	13.7	7.0	6.8	6.5	6.9	177.7	150.0
Tobacco products	21	49.1	7.7	6.4	3.2	2.8	4.5	3.7	62.3	52.0
Cigars	212	n.a.	9.3	-	4.4	-	4.9	-	80.9	-
Chewing and smoking tobacco	213	n.a.	-	11.4	-	4.8	-	6.6	-	105.1
Tobacco stemming and redrying	214	n.a.	13.4	11.2	5.0	4.2	8.4	7.0	50.4	51.4
Textile mill products	22	672.3	9.6	10.0	4.0	4.4	5.6	5.6	85.1	88.3
Broadwoven fabric mills, cotton	221	87.8	7.3	7.8	2.9	3.7	4.4	4.1	52.2	57.9
Broadwoven fabric mills, manmade	222	73.2	7.6	6.7	3.2	2.6	4.4	4.1	63.2	53.5
Broadwoven fabric mills, wool	223	17.2	7.7	8.1	4.0	3.8	3.7	4.3	120.9	92.1
Narrow fabric mills	224	23.5	9.6	10.9	4.8	4.6	4.8	6.3	97.4	100.1
Knitting mills	225	198.5	8.8	9.5	4.0	4.5	4.8	5.0	82.5	85.5
Women's hosiery, except socks	2251	31.3	4.9	5.4	2.3	2.8	2.7	2.6	51.4	54.1
Hosiery, n.e.c.	2252	37.7	7.2	7.9	3.7	4.2	3.5	3.7	86.7	90.4
Knit outerwear mills	2253	54.3	7.2	7.9	3.6	3.9	3.6	3.9	68.1	61.2
Knit underwear mills	2254	27.8	14.0	15.3	5.0	6.5	9.0	8.9	123.0	123.0
Wool knit fabric mills	2257	26.2	11.1	12.4	5.4	5.6	5.7	6.9	107.4	109.2
Lace and warp knit fabric mills	2258	n.a.	11.7	11.5	5.2	5.3	6.5	6.2	76.8	103.4
Knitting mills, n.e.c.	2259	n.a.	8.0	6.9	3.2	3.2	4.8	3.8	52.7	67.5
Textile finishing, except wool	226	64.4	11.7	10.9	5.2	5.0	6.5	5.9	113.3	117.6
Finishing plants, cotton	2261	26.4	12.1	10.4	5.4	4.6	6.7	5.8	116.9	95.3
Finishing plants, manmade	2262	25.2	11.4	10.6	4.7	5.0	6.7	5.6	93.8	104.3
Finishing plants, n.e.c.	2269	n.a.	11.4	12.6	5.9	5.8	5.5	6.7	144.8	194.3
Carpets and rugs	227	58.9	10.2	13.8	4.1	5.8	6.2	8.0	106.7	131.3
Yarn and thread mills	228	100.4	11.7	10.9	4.1	3.7	7.7	7.2	82.7	81.4
Yarn spinning mills	2281	79.3	11.1	10.8	3.7	3.3	7.3	7.5	75.6	77.0
Throwing and winding mills	2282	14.1	15.3	10.5	5.8	4.9	9.5	5.6	125.1	108.6
Thread mills	2284	n.a.	12.5	13.0	4.7	5.5	7.8	7.5	78.4	77.3
Miscellaneous textile goods	229	50.4	12.9	13.4	5.6	6.5	7.4	6.9	114.7	126.8
Coated fabrics, not rubberized	2295	n.a.	16.4	13.6	7.3	5.8	9.1	7.8	118.4	126.4
Tire cord and fabrics	2296	n.a.	12.2	15.5	5.3	6.8	6.9	8.8	115.3	144.6
Nonwoven fabrics	2297	n.a.	10.1	9.3	3.9	4.3	6.2	5.0	87.2	94.4
Cordage and twine	2298	n.a.	15.9	18.0	6.5	7.3	9.3	10.7	128.1	101.2
Textile goods, n.e.c.	2299	n.a.	11.8	13.2	5.3	7.7	6.5	5.5	120.8	152.0
Apparel and other textile products	23	1,010.3	8.8	9.2	3.9	4.2	4.9	5.0	92.1	99.9
Men's and boys' suits and coats	231	47.6	9.6	9.9	4.1	4.6	5.4	5.3	117.1	118.0
Men's and boys' furnishings	232	270.7	11.3	12.1	5.3	5.6	6.0	6.5	134.6	149.9
Men's and boys' shirts	2321	61.3	9.5	8.3	4.3	3.5	5.2	4.7	76.9	83.6
Men's and boys' underwear and nightwear	2322	n.a.	12.0	14.1	5.5	5.8	6.5	8.3	102.1	117.2
Men's and boys' trousers and slacks	2325	84.5	14.0	15.8	6.3	7.6	7.7	8.2	173.4	213.9
Men's and boys' work clothing	2326	42.5	12.8	15.5	6.7	7.5	8.0	8.0	199.0	247.4
Men's and boys' clothing, n.e.c.	2329	n.a.	9.0	8.1	4.4	3.6	4.6	4.5	120.8	74.5

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Women's and misses' outerwear	233	320.2	5.3	5.4	2.2	2.2	3.0	3.2	49.4	51.4
Women's and misses' blouses and shirts	2331	36.7	4.9	5.8	1.9	2.5	3.1	3.3	31.7	66.5
Women's and misses' suits and coats	2337	32.9	-	5.0	-	2.1	-	2.9	-	42.7
Women's and misses' outerwear, n.e.c.	2339	185.6	6.1	5.9	2.6	2.3	3.4	3.5	58.8	57.5
Women's and children's undergarments	234	59.7	7.7	8.4	2.8	3.5	4.9	4.9	56.7	86.3
Women's and children's underwear	2341	48.8	7.3	8.6	2.6	3.5	4.7	5.1	56.4	91.0
Bras, girdles, and allied garments	2342	11.0	9.3	7.7	3.6	3.4	5.7	4.3	57.8	66.0
Hats, caps, and millinery	235	n.a.	15.4	9.7	6.6	4.7	8.8	5.1	185.2	150.6
Girls' and children's outerwear	236	52.7	8.0	9.0	3.1	4.7	4.9	4.2	63.2	86.3
Girls' and children's dresses, blouses	2361	21.8	6.1	5.3	1.9	2.4	4.1	3.0	35.8	53.2
Girls' and children's outerwear, n.e.c.	2369	n.a.	9.3	11.4	3.9	6.3	5.5	5.1	81.8	107.8
Miscellaneous apparel and accessories	238	43.1	7.3	8.7	3.2	3.9	4.1	4.8	62.9	95.6
Robes and dressing gowns	2384	n.a.	6.9	8.4	2.6	2.6	4.2	5.8	47.1	58.0
Waterproof outerwear	2385	n.a.	10.2	9.4	4.1	4.6	6.2	4.8	122.7	92.7
Apparel belts	2387	n.a.	6.2	-	3.4	-	2.8	-	48.5	-
Apparel and accessories, n.e.c.	2389	n.a.	8.0	11.4	3.1	5.0	4.9	6.3	47.5	123.9
Miscellaneous fabricated textile products	239	199.1	11.2	11.3	5.1	5.3	6.1	6.0	113.8	110.0
Curtains and draperies	2391	22.0	7.5	8.2	4.0	3.8	3.6	4.5	78.2	91.6
Housefurnishings, n.e.c.	2392	52.2	11.3	11.8	4.9	5.1	6.4	6.7	109.3	90.6
Textile bags	2393	n.a.	14.9	12.2	6.7	5.7	8.2	6.5	152.7	87.2
Canvas and related products	2394	n.a.	10.5	9.5	5.1	4.8	5.5	4.7	129.8	121.8
Pleating and stitching	2395	n.a.	8.4	7.4	2.9	3.4	5.5	4.0	60.8	99.3
Automotive and apparel trimmings	2396	51.1	13.5	15.0	6.0	7.0	7.5	8.0	131.6	136.3
Fabricated textile products, n.e.c.	2399	n.a.	11.6	9.8	5.8	5.0	5.8	4.8	136.6	114.8
Paper and allied products	26	688.2	12.1	11.2	5.5	5.0	6.6	6.3	124.8	122.7
Pulp mills	261	n.a.	8.5	10.1	3.9	3.3	4.6	6.8	78.1	65.3
Paper mills	262	181.5	11.3	10.5	4.6	4.1	6.8	6.4	115.9	127.7
Paperboard mills	263	50.4	12.6	11.5	4.7	4.9	7.9	6.6	113.5	127.0
Paperboard containers and boxes	265	206.8	13.4	12.5	6.2	5.7	7.2	6.8	135.9	135.7
Setup paperboard boxes	2652	n.a.	10.9	10.8	5.6	4.8	5.3	5.9	123.4	107.1
Corrugated and solid fiber boxes	2653	117.5	13.9	13.2	6.3	6.0	7.7	7.2	146.8	151.5
Fiber cans, drums and similar products	2655	n.a.	10.2	10.9	5.1	4.2	5.1	6.7	106.4	126.2
Sanitary food containers	2656	15.3	12.1	9.4	6.6	4.9	5.5	4.6	120.9	102.1
Folding paperboard boxes	2657	49.2	13.9	12.7	6.4	5.8	7.5	6.9	126.1	116.6
Miscellaneous converted paper products	267	235.2	11.6	10.7	5.8	5.2	5.8	5.6	127.6	110.0
Paper coated and laminated, packaging	2671	n.a.	13.3	11.8	5.1	5.2	8.1	6.6	85.3	107.7
Paper coated and laminated, n.e.c.	2672	45.0	8.1	7.2	4.0	3.1	4.1	4.1	82.0	60.7
Bags: plastics, laminated, and coated	2673	34.1	11.7	11.6	6.0	5.9	5.7	5.7	128.2	116.0
Bags: uncoated paper and multiwall	2674	n.a.	14.7	-	7.2	-	7.5	-	162.9	-
Die-cut paper and board	2675	n.a.	11.7	10.0	6.2	4.3	5.5	5.7	169.7	93.6
Sanitary paper products	2676	n.a.	-	8.7	-	4.1	-	4.6	-	84.8
Envelopes	2677	25.2	12.0	12.5	6.2	6.9	5.9	5.6	134.5	181.7
Stationery products	2678	n.a.	12.2	10.7	6.3	5.3	5.9	5.5	157.4	159.8
Converted paper products, n.e.c.	2679	n.a.	14.9	13.1	7.9	6.1	7.0	7.0	170.3	121.0
Printing and publishing	27	1,540.9	6.9	6.7	3.3	3.2	3.5	3.5	69.8	74.5
Newspapers	271	459.4	7.4	7.2	3.5	3.4	3.9	3.8	83.7	86.6
Periodicals	272	127.4	3.4	2.4	1.9	1.3	1.5	1.1	47.9	32.0
Books	273	119.5	5.6	5.5	2.9	2.5	2.7	3.0	53.0	51.2
Book publishing	2731	83.8	4.0	4.3	2.1	2.3	1.9	2.0	39.5	48.3
Book printing	2732	35.7	9.0	8.1	4.6	3.0	4.4	5.1	81.4	57.3
Miscellaneous publishing	274	83.3	3.9	3.6	1.9	1.8	1.9	1.8	35.1	46.2
Commercial printing	275	542.9	7.8	7.4	3.8	3.6	3.9	3.8	75.9	79.6
Commercial printing, lithographic	2752	360.9	7.4	7.0	3.6	3.4	3.8	3.6	75.2	78.8

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Commercial printing, gravure	2754	n.a.	11.4	10.9	6.2	5.4	5.2	5.5	140.5	118.2
Commercial printing, n.e.c.	2759	163.7	8.2	8.0	4.1	3.9	4.0	4.1	70.3	76.7
Manifold business forms	276	49.3	9.1	10.1	3.5	4.3	5.6	5.8	65.9	100.0
Greeting cards	277	n.a.	7.7	11.3	3.9	7.1	3.8	4.3	69.3	183.5
Blankbooks and bookbinding	278	69.9	9.8	10.5	4.9	4.7	4.9	5.7	96.6	94.2
Blankbooks and looseleaf binders	2782	n.a.	9.1	11.2	4.7	4.7	4.4	6.5	91.6	89.2
Bookbinding and related work	2789	n.a.	11.0	9.3	5.3	4.8	5.7	4.5	104.8	102.3
Printing trade services	279	61.7	-	2.5	-	.9	-	1.6	-	20.2
Chemicals and allied products	28	1,072.4	6.5	6.4	3.1	3.1	3.4	3.3	61.6	62.4
Industrial inorganic chemicals	281	126.1	5.5	5.5	2.6	2.7	2.9	2.8	53.4	59.7
Alkalies and chlorine	2812	n.a.	4.7	6.7	1.8	3.0	2.9	3.7	43.1	59.0
Industrial gases	2813	n.a.	3.7	4.4	1.8	2.2	1.9	2.2	32.3	60.1
Inorganic pigments	2816	n.a.	7.9	6.4	4.1	3.4	3.9	3.0	90.5	75.5
Industrial inorganic chemicals, n.e.c.	2819	80.0	5.7	-	2.7	-	3.0	-	56.1	-
Plastics materials and synthetics	282	177.4	5.2	4.8	2.5	2.3	2.8	2.5	50.1	50.5
Plastics materials and resins	2821	85.6	5.8	5.2	3.0	2.7	2.8	2.6	60.1	47.4
Synthetic rubber	2822	n.a.	7.9	-	3.9	-	4.0	-	68.6	-
Organic fibers, noncellulosic	2824	63.3	2.6	2.8	1.1	1.3	1.6	1.6	23.6	32.6
Drugs	283	245.2	5.5	6.3	2.7	3.1	2.7	3.3	51.5	62.1
Medicinals and botanicals	2833	n.a.	6.5	7.4	3.1	3.6	3.4	3.8	54.5	78.9
Pharmaceutical preparations	2834	203.9	5.3	6.2	2.7	3.1	2.6	3.2	49.4	60.8
Diagnostic substances	2835	n.a.	5.7	4.5	2.6	2.1	3.0	2.4	40.7	55.1
Biological products except diagnostic	2836	n.a.	6.5	-	3.1	-	3.3	-	90.1	-
Soap, cleaners, and toilet goods	284	156.0	8.5	7.9	4.1	4.0	4.4	3.8	82.6	81.5
Poleishes and sanitation goods	2842	n.a.	10.7	8.3	4.7	4.1	6.0	4.2	77.1	93.9
Surface active agents	2843	44.3	10.1	9.3	4.0	3.9	6.1	5.4	50.6	85.9
Toilet preparations	2844	68.4	8.2	8.2	4.1	4.3	4.1	3.9	93.9	86.7
Paints and allied products	285	57.9	9.2	9.2	4.3	4.4	4.9	4.8	79.9	73.9
Industrial organic chemicals	286	155.2	6.0	5.5	2.7	2.5	3.3	3.0	51.2	53.5
Gum and wood chemicals	2861	n.a.	9.1	10.7	4.8	5.1	4.0	5.7	98.4	101.7
Cyclic crudes and intermediates	2865	27.3	8.6	7.4	4.4	3.9	4.2	3.4	61.4	91.5
Industrial organic chemicals, n.e.c.	2869	123.3	5.3	4.9	2.2	2.1	3.1	2.8	47.4	43.3
Agricultural chemicals	287	56.2	8.4	6.6	3.6	3.1	4.8	3.4	74.5	53.7
Nitrogenous fertilizers	2873	n.a.	8.9	5.0	3.2	2.2	5.7	2.7	97.7	59.3
Phosphatic fertilizers	2874	n.a.	9.9	8.9	4.3	4.2	5.5	4.8	80.3	54.3
Fertilizers, mixing only	2875	n.a.	10.1	11.5	5.1	5.9	5.0	5.6	93.2	103.9
Agricultural chemicals, n.e.c.	2879	n.a.	6.8	-	2.8	-	4.0	-	55.2	-
Miscellaneous chemical products	289	98.4	8.3	8.1	4.1	3.9	4.2	4.2	84.3	71.3
Adhesives and sealants	2891	n.a.	8.9	8.5	4.1	4.2	4.7	4.3	82.7	71.2
Explosives	2892	n.a.	-	7.3	-	3.8	-	3.5	-	77.7
Printing ink	2893	n.a.	8.8	9.4	4.2	5.1	4.6	4.2	75.4	90.2
Carbon black	2895	n.a.	3.6	3.2	2.5	1.9	1.1	1.4	61.7	25.0
Chemical preparations, n.e.c.	2899	n.a.	8.5	8.0	4.3	3.5	4.2	4.6	85.7	64.4
Petroleum and coal products	29	158.8	6.6	6.2	3.1	2.9	3.5	3.3	77.3	68.2
Petroleum refining	291	120.4	5.1	4.9	2.4	2.4	2.7	2.5	60.7	56.8
Asphalt paving and roofing materials	295	26.1	11.8	10.5	5.5	4.4	6.3	6.1	144.2	95.2
Asphalt paving mixtures and blocks	2951	n.a.	12.7	9.5	5.4	3.1	7.2	6.4	162.0	64.8
Asphalt felts and coatings	2952	n.a.	11.0	11.4	5.5	5.6	5.5	5.8	127.4	122.5
Miscellaneous petroleum and coal products	299	n.a.	9.2	11.0	4.4	5.5	4.9	5.5	92.4	130.1
Lubricating oils and greases	2992	n.a.	8.4	10.3	4.3	5.3	4.1	5.1	94.4	116.3
Petroleum and coal products, n.e.c.	2999	n.a.	17.9	15.2	5.7	7.0	12.0	8.1	72.0	225.1
Rubber and miscellaneous plastics products	30	863.7	16.2	15.1	7.8	7.2	8.4	7.8	151.3	150.9

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Tires and inner tubes	301	80.9	13.8	15.9	8.2	9.2	5.6	6.7	157.5	193.7
Rubber and plastics footwear	302	10.8	17.3	15.6	8.5	8.2	8.8	7.3	172.4	171.5
Hose and belting and gaskets and packing	305	58.0	16.5	13.5	7.1	5.8	9.4	7.7	151.4	127.0
Rubber and plastics hose and belting	3052	23.6	18.8	13.9	8.4	6.7	10.5	7.2	182.2	141.4
Gaskets, packing and sealing devices	3053	n.a.	14.9	13.3	6.3	5.2	8.6	8.1	129.9	117.0
Fabricated rubber products, n.e.c.	306	100.3	15.9	15.7	8.0	7.9	7.9	7.8	157.4	169.4
Mechanical rubber goods	3061	n.a.	17.1	17.4	9.0	9.2	8.1	8.1	153.9	195.0
Fabricated rubber products, n.e.c.	3069	n.a.	14.9	14.4	7.2	6.8	7.7	7.6	160.3	148.9
Miscellaneous plastics products, n.e.c.	308	613.7	16.5	15.0	7.7	7.0	8.7	8.0	149.1	144.1
Unsupported plastics film and sheet	3081	n.a.	14.1	13.0	6.3	5.9	7.8	7.1	114.5	120.3
Unsupported plastics profile shapes	3082	n.a.	15.3	13.8	7.1	5.6	8.2	8.2	129.4	120.0
Laminated plastics plate and sheet	3083	n.a.	13.4	12.7	6.4	6.0	7.0	6.7	142.7	124.0
Plastics pipe	3084	n.a.	17.7	15.5	9.1	6.6	8.6	8.8	164.4	133.9
Plastics bottles	3085	n.a.	14.7	14.0	7.3	6.6	7.3	7.5	166.5	135.2
Plastics foam products	3086	n.a.	15.4	14.3	7.5	7.0	8.0	7.3	151.9	142.5
Custom compound purchased resins	3087	n.a.	16.5	14.8	8.1	6.7	8.4	8.0	169.5	141.8
Plastics plumbing fixtures	3088	n.a.	17.1	20.3	9.7	10.2	7.3	10.1	158.1	187.5
Plastics products, n.e.c.	3089	n.a.	17.3	15.4	8.0	7.2	9.3	8.2	151.9	150.5
Leather and leather products	31	124.7	12.1	12.5	5.9	5.9	6.2	6.6	152.3	140.8
Leather tanning and finishing	311	14.7	19.2	20.4	10.4	11.4	8.8	9.1	216.1	236.1
Footwear cut stock	313	n.a.	12.4	14.0	7.6	7.4	4.9	6.6	188.6	203.3
Footwear, except rubber	314	68.1	12.2	11.8	5.7	5.5	6.5	6.3	150.3	140.6
House slippers	3142	n.a.	13.5	13.2	6.6	6.2	6.9	7.1	166.9	158.0
Men's footwear, except athletic	3143	30.4	13.2	13.3	5.9	6.5	7.3	6.8	175.9	174.7
Women's footwear, except athletic	3144	24.4	10.6	8.3	5.2	4.1	5.5	4.2	112.9	97.1
Footwear, except rubber, n.e.c.	3149	n.a.	12.5	-	6.2	-	6.3	-	158.2	-
Luggage	316	10.5	10.0	13.2	3.5	4.4	6.5	8.7	93.0	84.2
Handbags and personal leather goods	317	13.9	7.4	7.6	4.0	3.3	3.4	4.3	165.9	70.4
Personal leather goods, n.e.c.	3172	n.a.	9.2	9.7	5.2	4.2	4.0	5.4	217.7	95.0
Transportation and public utilities ⁷		5,771.8	9.6	9.3	5.5	5.4	4.0	3.9	134.1	140.0
Railroad transportation ⁷	40	263.3	7.5	7.6	5.8	5.9	1.8	1.6	211.6	296.7
Local and interurban passenger transit	41	353.7	9.7	9.5	5.6	5.6	4.2	3.9	141.7	140.8
Local and suburban transportation	411	154.7	13.2	11.6	7.4	6.9	5.8	4.7	166.7	154.6
Taxis	412	31.8	-	5.5	-	3.1	-	2.4	-	82.8
School buses	415	114.5	7.3	8.4	4.2	4.5	3.1	3.9	95.2	114.6
Trucking and warehousing	42	1,809.8	14.3	14.5	8.5	8.7	5.8	5.8	233.3	236.6
Trucking and courier services, except air	421	1,486.7	14.2	14.5	8.5	8.8	5.7	5.7	238.2	243.0
Public warehousing and storage	422	119.2	15.4	14.4	8.2	7.6	7.2	6.7	167.8	157.4
Water transportation	44	187.7	11.9	11.6	6.9	6.9	5.0	4.8	227.2	254.7
Water transportation services	449	122.2	13.5	13.9	7.8	8.5	5.7	5.4	283.6	328.9
Transportation by air	45	733.4	15.1	14.0	8.8	8.2	6.2	5.7	156.3	154.3
Air transportation, scheduled	451	605.6	15.7	14.4	9.2	8.6	6.5	5.8	164.2	163.0
Air transportation, nonscheduled	452	n.a.	7.1	5.9	3.5	3.1	3.5	2.7	66.4	43.2
Airports, flying fields, and services	458	100.1	13.5	13.6	7.9	7.2	5.5	6.4	132.4	134.4
Pipelines, except natural gas	46	19.0	3.4	4.0	1.4	1.8	2.0	2.2	31.6	39.8
Transportation services	47	344.8	3.9	3.8	2.3	2.2	1.6	1.6	38.3	50.8
Freight transportation arrangement	473	131.7	5.9	5.1	3.7	3.1	2.2	2.0	62.2	84.6
Miscellaneous transportation services	478	n.a.	18.4	18.9	9.8	10.3	8.5	8.5	153.9	183.1
Communications	48	1,297.2	3.3	3.2	1.8	1.8	1.5	1.5	38.8	39.3
Telephone communications	481	904.6	2.4	2.4	1.5	1.5	.9	.9	37.3	36.4
Telegraph and other communications	482	n.a.	-	1.7	-	.7	-	1.0	-	18.4

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Radio and television broadcasting	483	229.9	2.3	2.0	1.0	0.9	1.3	1.2	11.3	18.9
Cable and other pay tv services	484	128.5	11.7	11.7	5.7	5.7	5.9	6.0	95.2	96.9
Communication services, n.e.c.	489	n.a.	3.1	2.7	1.5	1.5	1.6	1.2	27.6	25.0
Electric, gas, and sanitary services	49	962.9	8.2	7.7	3.9	3.8	4.3	3.9	73.1	75.5
Electric services	491	448.2	6.8	6.2	2.8	2.8	4.0	3.4	54.5	53.2
Gas production and distribution	492	166.3	6.6	7.4	3.3	3.8	3.4	3.6	59.0	74.3
Combination utility services	493	194.3	6.2	5.9	3.4	3.3	2.8	2.7	74.8	67.8
Water supply	494	n.a.	11.6	11.2	6.4	5.5	5.2	5.7	101.8	101.3
Sanitary services	495	123.0	18.0	15.3	9.4	7.9	8.6	7.3	155.1	163.5
Irrigation systems	497	n.a.	15.0	13.8	7.1	6.6	7.9	7.2	140.1	110.2
Wholesale and retail trade		25,327.7	7.9	7.6	3.5	3.4	4.4	4.1	65.6	72.0
Wholesale trade		6,069.0	7.4	7.2	3.7	3.7	3.7	3.6	71.5	79.2
Wholesale trade durable goods	50	3,525.0	6.6	6.3	3.0	2.9	3.5	3.4	56.1	62.6
Motor vehicles, parts, and supplies	501	445.7	9.1	8.8	4.2	4.0	4.9	4.8	74.3	81.6
Furniture and home furnishings	502	141.5	7.9	6.3	4.1	3.1	3.8	3.2	85.4	65.7
Lumber and construction materials	503	211.4	11.1	9.9	5.8	4.8	5.3	5.1	104.3	125.1
Professional and commercial equipment	504	780.6	3.0	3.2	1.4	1.6	1.6	1.6	30.2	34.1
Metals and minerals, except petroleum	505	133.4	13.0	11.7	6.1	5.6	6.9	6.1	103.7	112.0
Electrical goods	506	477.2	3.4	3.8	1.6	1.7	1.8	2.1	31.1	37.1
Hardware, plumbing and heating equipment	507	269.6	6.0	6.0	2.6	2.6	3.4	3.4	43.6	46.7
Machinery, equipment, and supplies	508	774.0	7.1	6.9	2.8	3.0	4.3	3.9	50.2	64.7
Miscellaneous durable goods	509	291.5	8.8	8.8	4.7	4.7	4.1	4.1	90.6	93.1
Wholesale trade nondurable goods	51	2,544.0	8.6	8.6	4.7	4.7	3.9	3.8	93.8	103.0
Paper and paper products	511	241.3	5.5	7.5	2.6	4.1	2.9	3.4	44.9	80.2
Drugs, proprietaries, and sundries	512	187.0	4.6	6.5	2.4	3.4	2.2	3.1	54.8	70.3
Apparel, piece goods, and notions	513	198.1	4.3	-	2.1	-	2.2	-	36.8	-
Groceries and related products	514	845.0	12.4	12.0	7.1	6.8	5.2	5.1	142.7	153.1
Farm-product raw materials	515	117.5	9.0	9.0	4.3	4.3	4.6	4.7	86.5	109.9
Chemicals and allied products	516	136.1	5.9	-	3.2	-	2.7	-	75.0	-
Petroleum and petroleum products	517	188.2	5.4	5.7	2.5	3.0	2.9	2.7	58.5	85.6
Beer, wine, and distilled beverages	518	146.6	13.4	12.3	7.5	7.0	5.9	5.3	156.8	151.6
Miscellaneous nondurable goods	519	483.8	7.1	6.4	3.7	3.6	3.4	2.8	71.0	71.0
Retail trade		19,258.7	8.1	7.7	3.4	3.3	4.7	4.4	63.2	69.1
Building materials and garden supplies	52	745.9	10.1	9.7	5.1	4.8	5.0	4.9	84.7	90.7
Lumber and other building materials	521	416.2	12.3	12.1	6.5	6.1	5.8	6.0	104.5	103.8
Paint, glass, and wallpaper stores	523	n.a.	8.2	5.6	3.8	2.6	4.4	3.0	45.0	53.7
Hardware stores	525	156.5	6.3	5.9	2.9	2.8	3.4	3.2	45.1	66.3
Retail nurseries and garden stores	526	79.1	8.1	7.6	3.5	3.6	4.6	4.0	91.0	64.0
General merchandise stores	53	2,426.1	10.8	10.9	4.9	5.2	5.9	5.7	89.8	100.5
Department stores	531	2,046.6	11.2	11.2	5.1	5.3	6.1	5.8	91.9	102.3
Variety stores	533	162.5	9.0	10.4	3.9	4.9	5.1	5.5	69.8	92.3
Miscellaneous general merchandise stores	539	217.1	8.8	8.8	4.1	4.1	4.6	4.7	86.6	90.3
Food stores	54	3,203.9	11.5	11.2	5.0	4.9	6.6	6.3	100.5	117.8
Grocery stores	541	2,870.6	12.3	11.9	5.2	5.2	7.1	6.7	106.4	124.1
Automotive dealers and service stations	55	1,996.0	6.9	6.8	2.7	2.7	4.2	4.1	50.0	53.6
New and used car dealers	551	886.4	7.9	7.8	2.7	2.8	5.2	5.0	46.9	48.3
Auto and home supply stores	553	334.1	9.4	8.9	4.4	4.0	5.0	4.9	83.1	85.7
Gasoline service stations	554	627.3	4.5	4.1	1.9	2.0	2.6	2.2	40.5	41.3
Apparel and accessory stores	56	1,153.4	3.6	3.9	1.5	1.7	2.1	2.3	33.8	39.3
Women's clothing stores	562	368.3	3.6	3.2	1.4	1.1	2.2	2.1	37.6	21.8
Family clothing stores	565	297.7	5.9	6.1	2.6	2.9	3.3	3.1	49.5	81.6
Shoe stores	566	211.0	2.9	3.2	1.4	1.4	1.5	1.8	36.0	21.1
Furniture and home furnishings stores	57	801.2	7.6	4.6	2.2	2.3	2.5	2.3	39.2	48.2
Furniture and home furnishings stores	571	438.1	5.6	5.7	2.8	3.0	2.8	2.7	49.0	62.7
Household appliance stores	572	76.7	5.8	5.5	2.4	2.7	3.5	2.8	58.7	57.1
Radio, television, and computer stores	573	286.4	2.5	2.8	1.0	1.3	1.5	1.5	15.6	24.1
Eating and drinking places	58	6,465.4	8.4	7.5	3.2	2.9	5.2	4.6	53.0	54.4

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Miscellaneous retail	59	2,466.8	4.3	4.0	2.1	1.9	2.1	2.2	42.7	41.2
Drug stores and proprietary stores	591	614.0	4.0	3.9	1.8	1.8	2.1	2.1	33.0	36.6
Miscellaneous shopping goods stores	594	863.8	3.5	3.4	1.7	1.3	1.8	2.1	27.8	25.7
Nonstore retailers	596	281.1	7.4	7.7	3.5	3.9	3.8	3.8	76.9	88.1
Fuel dealers	598	101.7	8.3	6.3	4.6	3.4	3.8	2.9	90.9	79.2
Retail stores, n.e.c.	599	416.1	2.7	-	1.4	-	1.3	-	34.1	-
Finance, insurance, and real estate		6,678.5	2.4	2.4	1.1	1.1	1.3	1.3	27.3	24.1
Depository institutions	60	2,185.2	2.1	1.8	.9	.7	1.2	1.0	20.4	17.2
Commercial banks	602	1,538.8	1.9	1.9	.8	.8	1.1	1.1	18.9	18.4
Savings institutions	603	394.8	2.9	-	1.2	-	1.7	-	25.0	-
Nondepository institutions	61	378.7	.7	1.1	.3	.4	.4	.6	8.0	12.2
Federal and federal-sponsored credit	611	n.a.	.8	-	.3	-	.4	-	7.6	-
Security and commodity brokers	62	419.2	.9	-	.8	-	.4	-	27.8	-
Security brokers and dealers	621	313.8	.6	-	.3	-	.3	-	6.0	-
Insurance carriers	63	1,494.5	2.1	2.4	.9	1.0	1.2	1.4	24.9	19.5
Life insurance	631	565.3	2.0	2.3	.9	1.2	1.1	1.2	25.9	23.1
Medical service and health insurance	632	256.5	2.9	2.7	1.0	1.0	1.8	1.7	22.4	19.7
Fire, marine, and casualty insurance	633	560.6	2.2	2.5	1.0	1.0	1.2	1.5	29.4	18.4
Pension, health, and welfare funds	637	n.a.	.7	-	.2	-	.5	-	5.2	-
Insurance agents, brokers, and service	64	668.5	1.3	1.4	.6	.5	.7	.9	19.9	11.9
Real estate	65	1,305.0	4.8	5.4	2.5	2.8	2.3	2.6	52.8	60.4
Real estate operators and lessors	651	565.3	6.1	6.6	3.1	3.5	3.0	3.1	61.1	76.0
Real estate agents and managers	653	573.2	3.5	4.0	1.8	2.0	1.7	2.0	46.7	42.6
Subdividers and developers	655	136.7	6.1	7.4	3.2	4.1	2.9	3.2	55.9	89.0
Holding and other investment offices	67	227.4	2.5	2.6	1.1	1.3	1.3	1.3	29.8	27.1
Holding offices	671	109.7	2.7	2.7	1.2	1.2	1.5	1.5	19.4	28.4
Services		27,708.8	6.0	6.2	2.8	2.8	3.2	3.3	56.4	60.0
Hotels and other lodging places	70	1,595.4	10.7	10.3	4.9	4.9	5.8	5.4	95.9	99.1
Hotels and motels	701	1,544.6	10.6	10.4	5.0	5.0	5.7	5.4	97.4	101.1
Membership-basis organization hotels	704	n.a.	12.2	-	3.6	-	8.7	-	105.2	-
Personal services	72	1,108.2	3.6	4.0	1.6	2.0	1.9	2.1	34.1	47.9
Laundry, cleaning, and garment services	721	414.7	7.0	7.1	3.2	3.6	3.8	3.5	65.3	65.8
Business services	73	5,086.7	5.0	5.2	2.6	2.6	2.5	2.6	52.3	61.8
Mailing, reproduction, stenographic	733	231.4	4.6	4.4	2.6	2.2	2.0	2.2	41.6	38.0
Services to buildings	734	792.0	7.9	8.2	4.3	4.7	3.6	3.6	87.6	136.5
Miscellaneous equipment rental and leasing	735	203.1	9.7	-	5.1	-	4.6	-	133.7	-
Personnel supply services	736	1,494.3	7.7	8.6	3.8	4.1	3.9	4.5	69.6	85.2
Computer and data processing services	737	792.2	1.3	1.6	.5	.6	.8	1.0	12.1	12.9
Miscellaneous business services	738	1,240.1	4.8	5.1	2.4	2.6	2.4	2.6	50.8	55.8
Auto repair, services, and parking	75	882.4	7.4	6.5	3.4	3.2	4.0	3.4	71.2	71.3
Automotive rentals, no drivers	751	161.9	8.8	8.6	4.0	4.1	4.8	4.5	103.2	98.9
Automobile parking	752	60.3	4.6	3.4	2.6	1.9	2.0	1.6	89.1	47.0
Automotive repair shops	753	500.0	6.8	6.3	3.0	2.9	3.8	3.4	58.5	66.6
Automotive services, except repair	754	n.a.	9.0	6.1	4.4	3.3	4.5	2.8	73.0	65.4
Miscellaneous repair services	76	337.6	8.4	7.7	3.9	3.7	4.4	3.9	79.1	76.7
Electrical repair shops	762	108.0	5.8	5.3	2.9	2.6	2.9	2.7	59.1	52.1
Miscellaneous repair shops	769	n.a.	10.2	9.5	4.7	4.6	5.5	4.9	93.5	92.3
Motion pictures	78	408.7	3.6	3.6	1.4	1.0	2.3	2.6	23.5	16.6
Motion picture production and services	781	151.8	4.6	4.8	1.8	1.2	2.8	3.6	32.3	19.1
Motion picture distribution and services	782	n.a.	4.7	-	1.6	-	3.1	-	25.1	-
Motion picture theaters	783	110.9	5.2	4.7	1.7	1.3	3.5	3.4	25.6	21.0
Amusement and recreation services	79	1,107.1	9.0	8.8	4.1	4.0	5.0	4.8	69.5	71.2
Bowling centers	793	90.1	4.5	3.7	1.6	1.1	2.9	2.6	18.6	22.0
Miscellaneous amusement, recreation services	799	756.2	9.5	8.8	4.5	4.3	5.0	4.6	74.8	73.0

See footnotes at end of table.

Table 1. Occupational injury and illness incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	1991 Annual average employment (thousands) ³	Incidence rates per 100 full-time workers ⁴							
			Total cases ⁵		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
			1990	1991	1990	1991	1990	1991	1990	1991
Health services	80	8,177.3	8.4	8.9	3.9	3.9	4.5	5.0	80.7	81.1
Nursing and personal care facilities	805	1,498.8	15.6	15.3	9.1	8.7	6.6	6.5	190.3	186.9
Hospitals	806	3,656.7	10.6	11.5	4.2	4.3	6.4	7.2	81.6	81.5
Legal services	81	910.3	.6	.7	.3	.3	.3	.4	9.4	17.1
Educational services	82	1,718.9	3.8	3.8	1.7	1.8	2.1	2.1	31.4	32.9
Elementary and secondary schools	821	487.9	-	3.6	-	2.3	-	1.3	-	43.9
Colleges and universities	822	1,028.5	4.4	4.4	1.8	1.7	2.6	2.7	30.6	30.7
Social services	83	1,843.8	6.5	6.6	3.1	3.3	3.3	3.3	56.8	65.4
Individual and family services	832	490.0	4.5	4.0	2.3	2.2	2.2	1.8	55.2	61.2
Job training and related services	833	253.5	9.9	10.0	4.5	4.6	5.4	5.4	70.3	81.1
Child day care services	835	417.0	3.7	3.5	1.8	1.8	2.0	1.6	29.9	34.1
Residential care	836	500.8	9.6	10.1	4.8	4.9	4.7	5.2	91.4	93.3
Social services, n.e.c.	839	n.a.	4.9	5.2	2.1	2.6	2.8	2.6	41.6	35.4
Museums, botanical, zoological gardens	84	68.3	7.4	6.5	3.1	3.1	4.2	3.4	48.4	53.3
Museums and art galleries	841	n.a.	5.5	5.1	2.3	2.4	3.3	2.7	34.0	45.6
Botanical and zoological gardens	842	n.a.	13.7	11.8	6.0	5.9	7.7	5.9	98.1	82.4
Engineering and management services	87	2,424.8	2.1	2.3	.9	1.0	1.2	1.3	15.8	22.4
Engineering and architectural services	871	748.0	2.1	2.2	.9	.9	1.2	1.3	14.0	20.7
Accounting, auditing, and bookkeeping	872	514.9	.6	.8	.3	.5	.3	.3	5.3	9.5
Research and testing services	873	553.1	2.8	3.4	1.3	1.5	1.6	2.0	24.8	29.3
Management and public relations	874	606.7	2.9	2.7	1.2	1.2	1.8	1.5	19.8	30.1

¹ Totals for divisions and 2- and 3-digit SIC codes include data for industries not shown separately.

² Standard Industrial Classification Manual, 1987 edition.

³ Employment is expressed as an annual average and is derived primarily from the BLS-State Current Employment Statistics program. Annual average employment for the agriculture, forestry, and fishing division is a composite of employment data for agricultural production (SIC 01 and 02) as obtained from the Annual Survey of Occupational Injuries and Illnesses and employment data for agricultural services (SIC 07), forestry (SIC 08), and fishing, hunting, and trapping (SIC 09) as obtained from State unemployment insurance programs.

⁴ Incidence rates represent the number of injuries and illnesses or lost workdays per 100 full-time workers and were calculated as: $(N/EH) \times 200,000$ where,

N = number of injuries and illnesses or lost workdays.

EH = total hours worked by all employees during the calendar year, 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

⁵ Includes fatalities. Because of rounding, the difference between the total and the sum of the rates for lost workday cases and nonfatal cases without lost workdays may not reflect the fatality rate.

⁶ Excludes farms with fewer than 11 employees.

⁷ Data conforming to OSHA definitions for employers in the railroad industry and for mining operators in coal, metal, and nonmetal mining were provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation and the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

n.a. = data not available.

n.e.c. = not elsewhere classified.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines. Because of rounding, components may not add to totals.

Table 2. Number of occupational injuries and illnesses, and lost workdays by industry division, 1990 and 1991
(In thousands)

Industry division	Total cases ¹		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
	1990	1991	1990	1991	1990	1991	1990	1991
Injuries and illnesses								
Private industry ²	6,753.0	6,345.7	3,123.8	2,944.2	3,625.6	3,398.3	64,746.3	65,026.9
Agriculture, forestry, and fishing ²	116.3	111.2	58.8	56.3	57.4	54.8	1,124.0	1,120.0
Mining ²	60.5	52.2	36.1	31.9	24.2	20.2	870.4	918.5
Construction	636.1	519.3	299.4	242.5	337.6	276.2	6,625.7	5,919.5
Manufacturing	2,429.4	2,247.8	1,072.8	991.4	1,356.0	1,255.8	22,282.7	21,541.0
Durable goods	1,536.2	1,392.2	649.0	581.0	866.8	810.8	13,404.1	12,611.9
Nondurable goods	891.3	855.7	423.8	410.4	467.2	445.0	8,878.6	8,929.1
Transportation and public utilities ²	517.9	495.0	298.1	289.3	219.2	205.2	7,261.5	7,438.1
Wholesale and retail trade	1,583.8	1,485.3	705.8	672.5	877.4	812.2	13,164.3	14,101.6
Wholesale trade	430.1	410.6	215.5	208.4	214.3	202.1	4,166.1	4,495.6
Retail trade	1,153.6	1,074.8	490.2	464.2	663.1	610.2	8,998.2	9,606.0
Finance, insurance, and real estate	143.0	144.2	67.1	66.1	75.8	78.0	1,637.5	1,426.3
Services	1,263.9	1,290.7	585.7	594.2	677.9	695.9	11,780.1	12,561.9
Injuries								
Private industry ²	6,421.3	5,977.4	2,987.3	2,794.0	3,430.8	3,180.5	60,338.7	60,011.6
Agriculture, forestry, and fishing ²	110.7	105.1	57.2	54.3	53.3	50.8	1,091.3	1,082.1
Mining ²	59.1	50.5	35.6	31.4	23.3	18.9	857.0	905.2
Construction	629.6	512.3	296.3	239.9	332.4	271.9	6,548.6	5,845.9
Manufacturing	2,193.6	1,992.6	975.0	886.0	1,218.0	1,106.0	19,018.4	17,921.9
Durable goods	1,400.8	1,245.2	596.1	526.1	804.3	718.7	11,572.8	10,651.1
Nondurable goods	792.8	747.4	378.9	359.9	413.8	387.3	7,445.6	7,270.8
Transportation and public utilities ²	508.5	481.5	293.3	283.5	212.7	197.6	7,126.7	7,267.2
Wholesale and retail trade	1,562.9	1,480.1	695.4	661.0	866.9	798.5	12,788.6	13,652.0
Wholesale trade	422.8	401.8	211.5	204.1	211.0	197.3	4,046.5	4,337.6
Retail trade	1,140.0	1,058.6	483.9	457.0	655.9	601.2	8,742.1	9,314.4
Finance, insurance, and real estate	135.6	135.8	63.7	62.2	71.8	73.6	1,486.4	1,272.9
Services	1,223.4	1,239.4	570.8	575.6	652.3	663.3	11,421.5	12,064.4
Illnesses								
Private industry ²	331.6	388.3	136.5	150.2	194.9	217.8	4,407.6	5,015.3
Agriculture, forestry, and fishing ²	5.6	6.1	1.6	2.0	4.1	4.1	32.6	37.9
Mining ²	1.5	1.7	.5	.5	1.0	1.2	13.4	13.3
Construction	8.5	7.0	3.1	2.6	5.3	4.3	77.1	73.6
Manufacturing	235.8	255.2	97.8	105.4	138.0	149.8	3,264.3	3,619.1
Durable goods	137.4	147.0	52.9	54.8	84.5	92.1	1,831.3	1,960.7
Nondurable goods	98.4	108.2	44.9	50.6	53.4	57.7	1,433.0	1,658.3
Transportation and public utilities ²	11.4	13.4	4.8	5.8	6.5	7.6	134.9	170.9
Wholesale and retail trade	20.9	25.2	10.4	11.5	10.5	13.7	375.7	449.6
Wholesale trade	7.3	9.0	4.0	4.3	3.3	4.7	119.6	158.0
Retail trade	13.6	16.2	6.4	7.2	7.2	9.0	256.1	291.5
Finance, insurance, and real estate	7.4	8.3	3.4	3.9	4.0	4.4	151.0	153.4
Services	40.5	51.3	14.9	18.6	25.6	32.6	358.6	497.6

¹ Includes fatalities.

² Excludes farms with fewer than 11 employees.

³ Data conforming to OSHA definitions for employers in the railroad industry and for mining operators in coal, metal, and nonmetal mining were provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation and the Mine Safety and Health Administration, U.S. Department of Labor.

Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Because of rounding, components may not add to totals. The difference between the number of total cases and the sum of the lost workday cases and nonfatal cases without lost workdays may not equal the fatality estimate.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Private industry ⁵		8.3	7.9	3.9	3.7	4.5	4.2	78.3	79.8
Agriculture, forestry, and fishing ⁵		11.0	10.2	5.7	5.2	5.3	4.9	108.9	104.6
Agricultural production ⁵	01-02	12.3	11.1	6.3	5.5	6.0	5.6	116.6	111.4
Agricultural services	07	10.0	9.4	5.2	5.0	4.8	4.3	102.6	98.9
Forestry	08	10.6	11.9	5.3	5.4	5.3	6.5	107.5	105.4
Fishing, hunting, and trapping	09	5.7	6.3	3.7	3.7	1.9	2.6	84.2	100.0
Mining ⁶		8.1	7.1	4.9	4.4	3.2	2.7	117.7	127.8
Metal mining ⁶	10	6.6	6.2	4.0	3.8	2.6	2.4	57.6	77.1
Coal mining ⁶	12	10.4	10.5	8.1	8.2	2.3	2.3	139.0	184.7
Oil and gas extraction	13	7.9	6.3	4.1	3.4	3.7	2.8	136.5	132.6
Crude petroleum and natural gas	131	2.7	2.3	1.4	1.1	1.3	1.2	39.3	28.8
Oil and gas field services	138	12.7	9.9	6.7	5.5	6.0	4.3	227.0	226.8
Nonmetallic minerals, except fuels ⁶	14	6.9	6.7	4.1	4.1	2.7	2.7	60.0	72.4
Construction		14.1	12.8	6.6	6.0	7.4	6.8	146.1	146.2
General building contractors	15	13.2	11.8	6.3	5.5	6.8	6.3	135.9	130.0
Residential building construction	152	11.0	9.6	6.0	4.8	5.0	4.8	129.8	120.5
Operative builders	153	6.1	7.5	2.6	3.7	3.5	3.8	48.6	78.4
Nonresidential building construction	154	15.7	14.0	6.9	6.2	8.8	7.8	146.9	141.3
Heavy construction, except building	16	13.6	12.6	6.2	5.9	7.3	6.6	143.7	159.1
Highway and street construction	161	13.8	13.4	6.4	6.2	7.4	7.3	148.5	175.0
Heavy construction, except highway	162	13.5	12.2	6.1	5.8	7.3	6.4	141.4	152.4
Special trade contractors	17	14.6	13.3	6.8	6.2	7.7	7.0	151.2	149.3
Plumbing, heating, air-conditioning	171	15.5	14.0	6.5	5.8	9.0	8.2	122.5	132.9
Painting and paper hanging	172	9.1	9.7	5.2	5.6	3.9	4.1	149.7	163.6
Electrical work	173	13.3	12.4	5.2	5.0	8.1	7.3	105.8	106.3
Masonry, stonework, and plastering	174	16.8	14.5	8.6	7.4	8.3	7.1	198.6	183.9
Carpentry and floor work	175	13.0	13.1	6.9	6.9	6.0	6.2	139.6	153.9
Roofing, siding, and sheet metal work	176	17.9	16.5	9.6	8.8	8.3	7.7	251.5	243.9
Concrete work	177	13.2	11.7	7.1	6.3	6.0	5.4	132.6	144.7
Water well drilling	178	13.4	11.6	6.9	6.5	6.5	5.0	215.0	161.3
Miscellaneous special trade contractors	179	14.4	13.1	7.0	6.3	7.4	6.9	168.8	151.7
Manufacturing		11.9	11.2	5.3	5.0	6.6	6.2	103.0	101.1
Durable goods		12.9	12.1	5.5	5.1	7.4	7.0	106.5	103.8
Lumber and wood products	24	17.5	16.3	8.6	8.1	8.9	8.2	164.3	163.9
Logging	241	17.2	15.6	10.7	9.9	6.3	5.7	280.3	274.8
Sawmills and planing mills	242	17.6	16.8	8.6	8.2	8.9	8.5	170.5	167.0
Sawmills and planing mills, general	2421	17.6	16.8	8.7	8.5	8.9	8.4	175.5	173.6
Hardwood dimension and flooring mills	2426	16.8	16.0	7.9	6.9	8.8	9.1	134.7	123.6
Special product sawmills, n.e.c.	2429	24.2	24.3	13.7	13.7	10.5	10.5	345.1	339.0
Millwork, plywood and structural members	243	17.0	15.4	7.9	7.4	9.1	8.1	133.2	141.9
Millwork	2431	18.7	16.1	8.4	7.5	10.2	8.6	135.6	146.2
Wood kitchen cabinets	2434	13.9	14.0	6.6	6.6	7.3	7.4	110.5	117.3
Hardwood veneer and plywood	2435	17.3	14.8	7.5	7.2	9.8	7.7	127.7	148.4
Softwood veneer and plywood	2436	12.5	11.3	6.0	5.3	6.5	6.0	135.6	119.6
Structural wood members, n.e.c.	2439	24.0	22.7	12.2	11.9	11.8	10.8	187.0	215.0
Wood containers	244	17.6	16.5	9.8	9.5	8.3	7.0	177.1	175.1
Nailed wood boxes and shooks	2441	18.3	16.9	10.3	9.3	8.1	7.6	177.2	172.7
Wood pallets and skids	2448	17.5	16.6	10.0	9.9	7.5	6.7	183.6	194.0
Wood containers, n.e.c.	2449	17.6	15.9	8.8	8.0	8.7	7.9	152.7	97.4
Wood buildings and mobile homes	245	25.2	22.8	10.8	10.2	14.4	12.6	171.0	175.3
Mobile homes	2451	25.1	22.6	10.2	9.4	14.8	13.2	188.9	156.9
Prefabricated wood buildings	2452	25.4	23.3	12.1	12.1	13.3	11.2	175.8	216.6

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Miscellaneous wood products	249	14.3	13.6	6.8	5.9	7.5	7.7	133.3	118.3
Wood preserving	2491	16.1	16.3	8.1	7.4	7.9	8.9	163.4	136.9
Reconstituted wood products	2493	11.0	11.5	5.0	5.3	5.9	6.2	112.1	119.5
Wood products, n.e.c.	2499	15.1	13.7	7.1	5.8	8.0	7.9	133.9	113.3
Furniture and fixtures	25	15.9	14.7	7.2	6.7	8.7	8.0	122.9	114.2
Household furniture	251	15.0	14.6	6.7	6.5	8.3	8.1	108.7	105.4
Wood household furniture	2511	14.3	14.5	6.3	6.2	8.0	8.2	103.9	100.3
Upholstered household furniture	2512	14.2	13.1	6.2	5.5	8.0	7.5	91.6	88.3
Metal household furniture	2514	18.9	15.1	8.6	6.6	10.3	8.5	155.0	123.3
Mattresses and bedsprings	2515	18.6	20.4	9.0	11.1	9.5	9.3	149.2	168.9
Wood tv and radio cabinets	2517	-	14.4	-	7.0	-	7.4	-	95.3
Household furniture, n.e.c.	2519	13.4	12.8	6.1	5.9	7.3	6.8	121.5	109.0
Office furniture	252	17.9	14.0	8.3	6.6	9.6	7.5	153.8	131.1
Wood office furniture	2521	15.2	13.1	7.6	6.6	7.6	6.6	127.8	109.0
Office furniture, except wood	2522	20.5	14.8	8.9	6.6	11.6	8.3	180.3	151.1
Public building and related furniture	253	19.1	16.7	9.4	7.4	9.7	9.2	173.6	118.1
Partitions and fixtures	254	16.8	16.3	7.7	7.7	9.1	8.6	136.4	137.7
Wood partitions and fixtures	2541	16.3	16.3	7.6	8.3	8.7	8.1	122.7	134.6
Partitions and fixtures, except wood	2542	17.4	16.2	7.8	7.0	9.6	9.2	152.6	141.4
Miscellaneous furniture and fixtures	259	13.7	11.1	6.1	4.9	7.6	6.3	100.3	96.2
Drapery hardware and blinds and shades	2591	12.0	9.8	5.3	4.1	6.7	5.7	85.1	72.7
Furniture and fixtures, n.e.c.	2599	16.1	13.0	7.2	6.0	8.9	7.1	121.2	129.6
Stone, clay, and glass products	32	14.6	13.9	7.0	6.5	7.7	7.4	150.9	144.8
Flat glass	321	21.9	18.7	8.1	6.9	13.8	11.9	118.6	117.4
Glass and glassware, pressed or blown	322	14.7	13.8	6.9	6.3	7.9	7.5	148.1	133.9
Glass containers	3221	16.5	16.0	8.2	8.0	8.3	8.0	179.5	165.3
Pressed and blown glass, n.e.c.	3229	13.1	12.1	5.7	4.9	7.4	7.2	118.9	108.5
Products of purchased glass	323	16.8	15.8	6.6	5.8	10.2	10.0	119.2	111.0
Structural clay products	325	16.1	15.0	7.5	7.0	8.5	8.0	167.9	179.5
Brick and structural clay tile	3251	17.2	15.8	8.2	7.1	9.1	8.7	164.4	165.4
Ceramic wall and floor tile	3253	14.9	13.0	6.9	6.7	8.1	6.4	157.0	163.3
Clay refractories	3255	14.6	16.0	6.9	6.9	7.6	9.1	179.2	219.3
Structural clay products, n.e.c.	3259	17.6	15.5	8.2	7.9	9.4	7.6	199.9	226.8
Pottery and related products	326	12.6	13.1	7.3	7.5	5.3	5.6	139.2	167.0
Vitreous plumbing fixtures	3261	16.2	17.9	11.4	11.9	4.8	6.0	195.9	219.8
Porcelain electrical supplies	3264	12.5	13.2	6.8	6.4	5.7	6.7	128.3	159.7
Pottery products, n.e.c.	3269	9.8	8.2	5.2	4.9	4.6	3.3	101.7	108.5
Concrete, gypsum, and plaster products	327	15.2	14.5	7.7	7.1	7.5	7.3	182.5	168.7
Concrete block and brick	3271	17.0	15.2	7.9	7.9	9.0	7.3	174.7	200.5
Concrete products, n.e.c.	3272	19.7	18.0	10.4	8.6	9.3	9.4	207.0	190.5
Ready-mixed concrete	3273	12.9	13.1	6.5	6.7	6.5	6.4	184.8	164.7
Gypsum products	3275	6.3	6.5	2.2	2.5	4.2	4.0	71.4	72.7
Cut stone and stone products	328	12.6	13.3	6.5	6.4	6.1	7.0	135.9	113.1
Miscellaneous nonmetallic mineral products	329	11.6	11.3	5.5	5.4	6.1	5.9	108.9	118.5
Abrasive products	3291	12.6	11.2	6.5	5.5	6.0	5.7	129.9	126.4
Asbestos products	3292	10.1	-	6.1	-	4.1	-	94.1	-
Mineral wool	3296	9.1	10.5	3.6	4.7	5.5	5.9	74.3	94.4
Nonclay refractories	3297	12.9	13.5	6.5	7.2	6.3	6.3	150.5	193.0
Nonmetallic mineral products, n.e.c.	3299	12.8	11.7	6.5	5.5	6.3	6.1	123.4	102.6
Primary metal industries	33	17.8	16.5	7.7	7.0	10.1	9.5	167.0	155.7
Blast furnace and basic steel products	331	15.9	14.0	6.5	5.9	9.4	8.0	167.9	161.1
Blast furnaces and steel mills	3312	14.8	12.9	5.8	5.2	9.1	7.7	161.6	157.0
Electrometallurgical products	3313	11.4	-	5.7	-	5.7	-	182.4	-

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Steel wire and related products	3315	18.0	17.3	9.3	9.0	8.6	8.3	159.9	175.5
Cold finishing of steel shapes	3316	23.9	19.8	9.3	9.0	14.7	10.8	215.8	189.4
Steel pipe and tubes	3317	19.0	17.2	8.9	7.9	10.1	9.2	188.7	171.4
Iron and steel foundries	332	25.9	25.8	10.7	9.7	15.2	16.1	192.3	184.5
Gray and ductile iron foundries	3321	28.9	29.3	11.0	10.0	17.9	19.3	190.9	179.8
Malleable iron foundries	3322	21.3	16.3	11.8	8.0	9.6	8.3	220.0	169.4
Steel investment foundries	3324	18.3	-	8.2	-	10.1	-	153.9	-
Steel foundries, n.e.c.	3325	22.5	22.4	10.9	10.2	11.7	12.2	209.7	210.1
Primary nonferrous metals	333	18.9	17.0	6.4	5.8	12.4	11.3	136.0	136.5
Primary copper	3331	11.4	10.1	4.5	4.0	6.9	6.2	164.8	117.2
Primary aluminum	3334	24.0	20.9	7.2	6.4	16.8	14.5	139.9	144.9
Primary nonferrous metals, n.e.c.	3339	13.0	13.2	5.9	5.4	7.0	7.7	117.0	129.8
Secondary nonferrous metals	334	22.4	20.7	11.8	9.9	10.6	10.8	226.8	173.8
Nonferrous rolling and drawing	335	13.1	12.4	6.3	5.7	6.8	6.7	142.7	125.5
Copper rolling and drawing	3351	14.4	14.2	7.4	6.9	6.9	7.3	171.2	182.0
Aluminum sheet, plate, and foil	3353	13.2	10.5	4.6	4.2	8.5	6.3	92.8	95.4
Aluminum extruded products	3354	14.2	14.4	6.9	7.2	7.3	7.2	122.3	132.8
Aluminum rolling and drawing, n.e.c.	3355	13.8	-	3.9	-	9.9	-	116.4	-
Nonferrous rolling and drawing, n.e.c.	3356	11.3	-	5.1	-	6.2	-	110.7	-
Nonferrous wiredrawing and insulating	3357	12.4	12.9	6.7	5.9	5.7	7.0	170.8	134.7
Nonferrous foundries (castings)	336	19.8	18.3	9.6	9.4	10.2	8.9	178.1	162.0
Aluminum die-castings	3363	19.6	18.9	9.3	9.6	10.2	9.3	179.7	170.0
Nonferrous die-casting except aluminum	3364	21.2	17.2	10.6	9.5	10.6	7.6	177.2	170.6
Aluminum foundries	3365	21.2	20.3	10.4	10.8	10.8	9.6	175.1	163.8
Copper foundries	3366	20.3	18.6	9.6	9.1	10.7	9.5	201.6	172.5
Nonferrous foundries, n.e.c.	3369	14.3	11.9	6.7	5.4	7.6	6.5	155.8	105.7
Miscellaneous primary metal products	339	16.6	15.6	8.2	7.3	8.4	8.2	170.4	164.4
Metal heat treating	3398	18.2	16.3	8.7	7.6	9.5	8.7	160.8	141.1
Primary metal products, n.e.c.	3399	14.6	14.6	7.5	7.0	7.1	7.6	182.8	195.7
Fabricated metal products	34	17.5	16.0	7.5	6.7	10.0	9.3	141.6	130.3
Metal cans and shipping containers	341	18.7	15.9	7.6	6.4	11.1	9.5	155.6	128.7
Metal cans	3411	17.4	14.5	6.9	5.3	10.5	9.1	143.0	109.8
Metal barrels, drums, and pails	3412	24.1	21.8	10.6	11.1	13.4	10.7	206.9	207.0
Cutlery, handtools, and hardware	342	13.8	12.2	5.7	5.0	8.1	7.2	106.1	111.1
Cutlery	3421	12.3	13.7	5.9	6.3	6.4	7.3	118.7	117.3
Hand and edge tools, n.e.c.	3423	14.8	12.5	5.8	5.3	9.0	7.2	101.7	99.1
Saw blades and hand saws	3425	10.9	11.4	5.3	5.2	5.6	6.1	110.1	115.0
Hardware, n.e.c.	3429	13.9	11.8	5.7	4.6	8.3	7.3	105.8	115.7
Plumbing and heating, except electric	343	15.4	15.5	6.7	6.2	8.7	9.3	133.9	125.4
Metal sanitary ware	3431	19.5	25.5	6.8	10.6	12.7	14.9	148.7	197.2
Plumbing fixture fittings and trim	3432	12.2	9.9	6.3	4.3	5.9	5.6	124.8	89.0
Heating equipment, except electric	3433	16.5	16.1	7.0	5.8	9.5	10.3	134.9	124.4
Fabricated structural metal products	344	20.2	18.4	9.2	7.8	11.0	10.6	169.8	149.7
Fabricated structural metal	3441	23.2	20.6	11.6	9.3	11.7	11.2	208.4	170.0
Metal doors, sash, and trim	3442	17.7	18.4	7.6	7.1	10.1	11.3	147.0	134.5
Fabricated plate work (boiler shops)	3443	22.1	19.6	9.8	8.5	12.2	11.1	188.8	169.5
Sheet metalwork	3444	18.8	17.2	8.0	6.9	10.8	10.3	141.2	132.2
Architectural metal work	3446	19.8	15.9	10.2	7.2	9.5	8.8	190.2	126.8
Prefabricated metal buildings	3448	17.0	14.4	8.1	6.5	8.9	7.9	133.6	133.6
Miscellaneous metal work	3449	-	17.5	-	7.5	-	10.0	-	146.1
Screw machine products, bolts, etc.	345	14.3	14.5	5.4	5.7	8.9	8.8	102.8	104.3
Screw machine products	3451	13.5	12.9	5.2	4.9	8.3	8.0	96.4	81.1
Bolts, nuts, rivets, and washers	3452	15.0	16.0	5.6	6.5	9.4	9.5	108.6	125.2
Metal forgings and stampings	346	22.0	19.9	8.1	7.5	13.9	12.4	158.9	152.1
Iron and steel forgings	3462	21.6	19.3	9.7	9.3	11.9	10.0	189.6	216.5
Nonferrous forgings	3463	19.3	17.7	8.4	8.0	10.9	9.7	200.1	211.1
Automotive stampings	3465	26.0	23.1	8.3	7.9	17.7	15.2	167.2	158.0
Crowns and closures	3466	-	14.1	-	6.9	-	7.3	-	143.9

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Metal stampings, n.e.c.	3469	17.5	16.8	7.1	6.3	10.4	10.5	128.9	114.5
Metal services, n.e.c.	347	15.2	13.7	7.8	6.7	7.3	6.9	133.6	120.6
Plating and polishing	3471	15.0	13.2	7.6	6.1	7.4	7.0	127.3	109.6
Metal coating and allied services	3479	15.4	14.4	8.2	7.7	7.2	6.7	144.2	138.1
Ordinance and accessories, n.e.c.	348	9.4	7.4	3.9	3.0	5.6	4.4	92.2	68.2
Small arms ammunition	3482	8.1	-	2.2	-	5.8	-	48.1	-
Ammunition, except for small arms, n.e.c.	3483	9.0	6.7	3.5	2.8	5.5	3.9	106.4	69.3
Small arms	3484	14.2	12.2	7.3	4.8	6.9	7.4	100.5	85.1
Ordinance and accessories, n.e.c.	3489	5.2	-	1.9	-	3.3	-	36.6	-
Miscellaneous fabricated metal products	349	15.5	14.6	6.8	6.4	8.8	8.2	127.7	121.7
Industrial valves	3491	14.7	13.9	5.3	6.0	9.4	7.9	106.4	121.7
Fluid power valves and hose fittings	3492	12.3	12.7	3.8	5.1	8.5	7.7	85.4	82.5
Steel springs, except wire	3493	21.4	16.0	11.6	9.5	9.8	6.5	229.4	175.3
Valves and pipe fittings, n.e.c.	3494	15.4	14.4	7.6	6.2	7.7	8.2	135.4	107.4
Wire springs	3495	11.7	13.4	4.3	5.1	7.4	8.3	75.6	78.4
Miscellaneous fabricated wire products	3496	17.3	14.5	8.5	6.7	8.9	7.8	151.6	140.1
Metal foil and leaf	3497	13.8	13.5	5.3	5.9	8.5	7.6	135.7	120.1
Fabricated pipe and fittings	3498	18.0	16.3	8.2	7.4	9.8	9.0	145.2	159.0
Fabricated metal products, n.e.c.	3499	15.2	15.8	6.4	6.7	8.8	9.1	127.6	119.6
Industrial machinery and equipment	35	11.3	10.4	4.4	4.1	6.8	6.3	79.4	75.6
Engines and turbines	351	10.5	10.5	3.9	3.4	6.6	7.2	71.1	62.7
Turbines and turbine generator sets	3511	9.8	11.3	3.6	3.4	6.2	7.9	71.9	62.4
Internal combustion engines, n.e.c.	3519	10.8	10.2	4.0	3.4	6.8	6.8	70.7	62.8
Farm and garden machinery	352	17.7	15.3	7.1	5.7	10.7	9.6	111.5	96.5
Farm machinery and equipment	3523	17.7	15.5	7.3	6.1	10.3	9.3	114.6	106.7
Lawn and garden equipment	3524	17.9	15.0	6.3	4.6	11.6	10.5	102.8	66.5
Construction and related machinery	353	15.6	14.5	6.2	5.8	9.4	8.7	109.2	104.0
Construction machinery	3531	14.8	14.3	5.6	5.5	9.2	8.8	103.0	103.8
Mining machinery	3532	19.6	16.2	9.0	6.7	10.7	9.5	147.0	143.7
Oil and gas field machinery	3533	14.8	13.1	5.4	5.4	9.4	7.8	100.5	95.6
Elevators and moving stairways	3534	11.9	11.7	5.7	4.5	6.2	7.2	94.5	103.5
Conveyors and conveying equipment	3535	15.6	16.2	5.9	6.2	9.7	10.0	100.8	96.5
Hoists, cranes, and monorails	3536	20.1	14.8	7.8	5.8	12.3	9.1	146.7	121.3
Industrial trucks and tractors	3537	17.0	15.5	7.7	6.9	9.3	8.6	122.9	96.1
Metalworking machinery	354	11.4	10.7	4.0	3.7	7.4	7.0	77.0	65.7
Machine tools, metal cutting types	3541	11.2	10.2	4.1	3.9	7.2	6.3	82.6	56.9
Machine tools, metal forming types	3542	15.0	12.8	5.3	5.1	9.7	7.7	88.7	113.4
Special dies, tools, jigs and fixtures	3544	11.6	11.4	3.9	3.6	7.7	7.8	73.4	56.4
Machine tool accessories	3545	10.7	9.2	3.8	3.2	6.9	6.1	81.5	61.8
Power-driven handtools	3546	7.7	8.5	3.0	3.1	4.6	5.3	62.0	82.6
Rolling mill machinery	3547	14.9	15.8	4.5	6.0	10.4	9.8	82.0	139.2
Welding apparatus	3548	11.5	9.4	4.8	3.4	6.6	6.0	88.0	73.6
Metalworking machinery, n.e.c.	3549	12.8	13.5	4.7	4.9	8.1	8.6	78.8	91.2
Special industry machinery	355	12.8	11.5	5.0	4.4	7.8	7.1	84.0	80.1
Textile machinery	3552	14.0	12.8	4.7	4.0	9.3	8.7	71.3	72.1
Woodworking machinery	3553	16.3	14.7	6.5	4.9	9.8	10.0	119.6	79.0
Paper industries machinery	3554	13.8	13.3	5.2	5.9	8.6	7.4	95.4	91.2
Printing trades machinery	3555	8.0	7.8	3.4	3.1	4.7	4.7	61.9	62.5
Food products machinery	3556	15.9	13.9	5.8	5.5	10.1	8.3	93.6	109.7
Special industry machinery, n.e.c.	3559	12.5	10.8	5.2	4.2	7.2	6.7	83.7	75.3
General industrial machinery	356	13.5	12.8	5.4	5.2	8.0	7.7	96.0	96.9
Pumps and pumping equipment	3561	12.5	9.9	5.4	4.1	7.2	5.7	111.2	74.1
Ball and roller bearings	3562	10.9	9.9	3.9	3.5	7.0	6.4	71.2	75.4
Air and gas compressors	3563	11.5	13.2	4.0	4.5	7.5	8.7	71.5	84.2
Blowers and fans	3564	17.6	15.3	7.1	6.1	10.5	9.3	116.2	131.6
Packaging machinery	3565	11.7	11.9	4.3	4.5	7.4	7.4	57.6	63.4
Speed changers, drives, and gears	3566	16.2	16.8	7.2	7.3	9.0	9.6	133.1	118.0
Industrial furnaces and ovens	3567	16.1	14.9	6.0	5.4	10.1	9.6	89.8	81.3
Power transmission equipment, n.e.c.	3568	13.5	14.4	7.0	6.5	6.5	7.9	147.8	117.3
General industrial machinery, n.e.c.	3569	13.7	13.5	5.7	6.3	8.0	7.1	94.2	124.6

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Computer and office equipment	357	3.1	3.2	1.6	1.4	1.5	1.7	31.1	26.2
Electronic computers	3571	2.1	2.3	1.2	1.1	1.0	1.2	25.5	22.6
Computer storage devices	3572	4.6	3.5	2.1	1.6	2.5	1.9	40.9	35.6
Computer terminals	3575	4.0	-	2.1	-	1.9	-	51.5	-
Computer peripheral equipment, n.e.c.	3577	4.1	3.5	2.3	1.9	1.8	1.7	32.2	32.4
Refrigeration and service machinery	358	14.7	13.9	5.7	6.0	8.9	7.9	107.9	116.5
Automatic vending machines	3581	19.1	13.0	7.8	5.9	11.3	7.1	166.3	157.9
Commercial laundry equipment	3582	13.9	11.7	4.6	5.2	9.2	6.5	73.8	80.5
Refrigeration and heating equipment	3585	14.8	14.4	5.8	6.1	9.0	8.3	107.8	118.2
Measuring and dispensing pumps	3586	10.4	13.3	3.9	5.6	6.5	7.7	74.6	99.5
Service industry machinery, n.e.c.	3589	14.1	12.8	5.6	5.9	8.5	6.9	108.7	111.7
Industrial machinery, n.e.c.	359	13.1	10.9	5.0	4.5	8.1	6.5	88.5	86.6
Carburetors, pistons, rings, valves	3592	14.7	11.4	6.4	4.7	8.3	6.7	135.4	96.5
Fluid power cylinders and actuators	3593	13.9	11.9	4.5	4.7	9.4	7.2	68.1	117.7
Fluid power pumps and motors	3594	13.6	9.6	5.5	4.4	8.1	5.2	104.5	79.1
Scales and balances, except laboratory	3596	8.3	7.0	3.1	3.2	5.2	3.8	71.4	57.4
Industrial machinery, n.e.c.	3599	12.9	11.1	4.8	4.5	8.0	6.6	84.0	84.9
Electronic and other electric equipment	36	7.7	7.2	3.3	3.1	4.5	4.1	59.3	61.1
Electric distribution equipment	361	9.9	10.9	4.1	4.5	5.8	6.4	77.7	90.2
Transformers, except electronic	3612	10.8	11.8	4.1	5.1	6.7	6.7	87.1	114.0
Switchgear and switchboard apparatus	3613	9.0	9.9	4.2	3.9	4.8	6.0	68.0	65.6
Electrical industrial apparatus	362	9.1	8.2	3.6	3.4	5.6	4.8	70.0	69.3
Motors and generators	3621	10.2	10.0	4.0	4.1	6.2	6.0	84.7	76.6
Carbon and graphite products	3624	8.0	10.6	3.9	5.2	4.1	5.4	80.7	145.3
Relays and industrial controls	3625	8.2	5.6	3.0	2.2	5.2	3.5	50.2	49.1
Electrical industrial apparatus, n.e.c.	3629	7.6	6.7	3.4	3.5	4.2	3.2	64.4	52.9
Household appliances	363	14.7	13.9	5.3	5.1	9.4	8.7	90.9	86.0
Household cooking equipment	3631	18.6	16.9	7.0	6.3	11.6	10.5	99.7	92.9
Household refrigerators and freezers	3632	14.7	12.6	4.7	4.4	10.0	8.3	75.4	73.6
Household laundry equipment	3633	17.4	12.9	4.7	4.2	12.7	8.7	88.4	68.0
Electric housewares and fans	3634	9.9	11.7	3.5	3.9	6.4	7.8	61.4	69.4
Household vacuum cleaners	3635	9.2	8.4	4.1	3.5	5.1	5.0	127.6	111.6
Household appliances, n.e.c.	3639	20.3	26.3	9.6	12.4	10.7	14.0	141.0	179.6
Electric lighting and wiring equipment	364	10.6	9.2	4.8	3.9	5.9	5.2	91.4	84.9
Electric lamps	3641	7.2	5.5	3.1	2.1	4.1	3.5	60.8	48.4
Current-carrying wiring devices	3643	8.5	8.3	4.1	3.8	4.4	4.5	77.1	85.7
Noncurrent-carrying wiring devices	3644	15.5	12.3	7.3	5.4	8.1	6.9	128.1	97.4
Residential lighting fixtures	3645	11.3	9.8	5.6	4.6	5.7	5.2	108.9	112.1
Commercial lighting fixtures	3646	13.1	10.2	5.5	4.5	7.6	5.7	88.0	87.4
Vehicular lighting equipment	3647	15.3	11.3	5.2	3.8	10.0	7.4	87.1	91.7
Lighting equipment, n.e.c.	3648	11.4	10.7	4.7	4.4	6.7	6.3	173.5	69.3
Household audio and video equipment	365	7.7	8.6	3.5	3.9	4.2	4.7	55.3	69.2
Household audio and video equipment	3651	8.0	8.9	3.3	3.9	4.7	5.1	52.3	69.7
Prerecorded records and tapes	3652	7.0	7.8	4.1	3.9	2.9	4.0	64.3	67.9
Communications equipment	366	4.7	3.7	2.1	1.6	2.6	2.1	38.5	33.2
Telephone and telegraph apparatus	3661	4.5	3.5	2.1	1.5	2.4	1.9	38.4	31.4
Radio and tv communications equipment	3663	4.5	3.8	1.9	1.5	2.6	2.1	34.8	30.0
Communications equipment, n.e.c.	3669	6.5	5.6	2.6	2.8	3.9	2.8	57.0	56.9
Electronic components and accessories	367	5.5	5.4	2.4	2.5	3.1	2.9	42.9	49.6
Electron tubes	3671	9.4	11.0	5.3	6.5	4.1	4.6	102.6	135.1
Printed circuit boards	3672	7.0	6.5	3.0	3.3	4.0	3.1	47.0	52.8
Semiconductors and related devices	3674	3.8	3.9	1.7	1.7	2.1	2.2	30.3	39.8
Electronic capacitors	3675	6.7	4.6	3.1	1.6	3.6	3.0	46.4	29.7
Electronic resistors	3676	5.2	-	2.2	-	2.9	-	55.7	-
Electronic coils and transformers	3677	7.7	9.0	3.4	3.1	4.3	5.8	53.4	66.3
Electronic connectors	3678	7.3	7.8	3.2	3.6	4.0	4.0	53.6	64.9
Electronic components, n.e.c.	3679	6.0	5.4	2.4	2.4	3.6	3.0	44.1	48.2
Miscellaneous electrical equipment and supplies	369	9.3	8.4	3.9	3.8	5.3	4.6	72.1	71.9
Storage batteries	3691	13.2	11.9	6.7	5.9	6.5	5.9	133.7	133.4

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Primary batteries, dry and wet	3692	5.0	6.4	2.5	2.8	2.5	3.5	46.7	54.3
Engine electrical equipment	3694	10.1	8.9	3.5	3.4	6.5	5.4	63.9	68.1
Magnetic and optical recording media	3695	5.8	6.0	2.5	3.3	3.2	2.7	48.3	52.9
Electrical equipment and supplies, n.e.c.	3699	7.5	6.8	3.5	3.4	4.0	3.4	56.3	46.8
Transportation equipment	37	15.2	15.2	6.0	6.0	9.2	9.2	123.6	129.6
Motor vehicles and equipment	371	18.9	18.6	6.8	6.5	12.0	12.1	137.1	132.4
Motor vehicles and car bodies	3711	21.3	21.6	6.9	7.3	14.4	14.3	152.7	157.7
Truck and bus bodies	3713	19.8	21.0	8.2	7.9	11.6	13.1	158.9	145.2
Motor vehicle parts and accessories	3714	16.6	16.0	6.4	5.5	10.2	10.4	119.9	110.8
Truck trailers	3715	22.3	23.7	9.9	9.8	12.4	14.0	184.0	163.7
Motor homes	3716	19.5	15.5	7.5	6.2	12.0	9.2	124.2	113.8
Aircraft and parts	372	9.1	9.3	3.6	3.8	5.5	5.5	76.9	94.8
Aircraft	3721	8.6	8.4	3.5	3.6	5.1	4.8	79.1	103.7
Aircraft engines and engine parts	3724	8.5	9.0	4.0	3.9	4.5	5.0	81.0	80.7
Aircraft parts and equipment, n.e.c.	3726	10.8	11.3	3.6	3.9	7.2	7.4	69.0	88.5
Ship and boat building and repairing	373	34.9	34.0	15.5	15.8	19.4	18.2	331.9	337.4
Ship building and repairing	3731	41.1	39.6	18.1	18.4	23.0	21.2	411.5	389.5
Boat building and repairing	3732	20.5	17.5	9.5	8.2	11.0	9.3	148.9	182.7
Railroad equipment	374	19.1	18.2	8.7	8.6	10.4	9.5	195.0	183.0
Motorcycles, bicycles, and parts	375	14.8	17.6	6.4	7.5	8.4	10.1	131.0	119.5
Guided missiles, space vehicles, parts	376	3.6	3.8	1.7	1.9	1.9	1.9	34.4	43.2
Guided missiles and space vehicles	3761	3.5	3.7	1.7	1.9	1.8	1.8	31.9	45.5
Space propulsion units and parts	3764	4.0	4.0	2.0	1.8	2.0	2.2	43.4	37.0
Space vehicle equipment, n.e.c.	3769	3.6	3.6	1.5	1.5	2.1	2.1	35.4	37.6
Miscellaneous transportation equipment	379	16.4	15.1	7.4	5.8	9.0	9.4	120.8	103.0
Travel trailers and campers	3792	19.6	20.0	7.4	6.8	12.2	13.3	130.2	111.8
Instruments and related products	38	5.0	5.0	2.2	2.2	2.8	2.8	41.0	45.6
Search and navigation equipment	381	3.2	3.7	1.4	1.6	1.8	2.2	29.2	35.0
Measuring and controlling devices	382	6.0	5.5	2.6	2.4	3.4	3.1	46.6	51.1
Laboratory apparatus and furniture	3821	9.7	8.6	4.2	4.6	5.5	4.0	76.2	74.0
Environmental controls	3822	-	6.7	-	3.6	-	3.1	-	77.7
Process control instruments	3823	6.4	5.5	2.5	2.2	4.0	3.3	49.9	46.7
Fluid meters and counting devices	3824	-	7.3	-	2.3	-	4.9	-	49.2
Instruments to measure electricity	3825	4.3	4.1	1.9	1.8	2.4	2.4	34.7	50.1
Analytical instruments	3826	6.4	-	3.0	-	3.4	-	43.7	-
Measuring and controlling devices, n.e.c.	3829	5.9	5.9	2.3	2.3	3.6	3.5	37.9	33.6
Medical instruments and supplies	384	6.0	5.5	2.8	2.5	3.3	3.0	50.3	50.4
Surgical and medical instruments	3841	5.0	4.3	2.6	2.0	2.4	2.3	41.4	44.3
Surgical appliances and supplies	3842	7.4	7.0	3.2	3.2	4.2	3.8	65.6	64.8
Dental equipment and supplies	3843	7.3	8.6	3.0	3.8	4.3	4.8	51.5	62.7
Electromedical equipment	3845	4.7	4.3	2.0	1.7	2.6	2.6	35.6	30.1
Ophthalmic goods	385	4.3	5.6	1.8	2.5	2.4	3.1	35.3	44.5
Photographic equipment and supplies	386	4.6	5.0	2.2	2.5	2.4	2.5	36.2	46.6
Watches, clocks, watchcases and parts	387	8.1	5.3	2.7	1.7	5.4	3.6	48.8	22.4
Miscellaneous manufacturing industries	39	10.3	10.2	4.6	4.6	5.7	5.6	93.7	84.2
Jewelry, silverware, and plated ware	391	4.8	5.6	2.2	2.4	2.6	3.2	42.2	39.6
Jewelry, precious metal	3911	3.8	4.7	1.6	1.8	2.3	2.9	28.0	33.0
Silverware and plated ware	3914	10.0	11.7	5.1	5.7	4.9	6.0	115.3	90.8
Musical instruments	393	9.8	11.2	4.0	4.8	5.8	6.4	66.7	120.2
Toys and sporting goods	394	13.1	13.0	5.9	6.4	7.1	6.6	105.2	111.0
Games, toys, and children's vehicles	3944	14.9	12.4	7.2	6.0	7.7	6.5	129.6	103.1
Sporting and athletic goods, n.e.c.	3949	12.5	14.0	5.4	6.9	7.1	7.1	96.4	123.0

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Pens, pencils, office, and art supplies	395	9.4	7.9	4.5	3.6	4.9	4.3	88.3	69.0
Pens and mechanical pencils	3951	9.4	6.6	3.2	2.7	6.2	3.9	97.3	56.9
Lead pencils and art goods	3952	13.2	11.7	7.9	6.3	5.3	5.5	118.7	120.4
Carbon paper and inked ribbons	3955	10.3	10.2	5.8	5.0	4.5	5.2	117.4	86.3
Costume jewelry and notions	396	6.1	6.5	2.7	3.2	3.4	3.3	82.2	71.7
Costume jewelry	3961	4.4	4.6	2.1	2.5	2.3	2.2	86.3	54.1
Fasteners, buttons, needles, and pins	3965	8.8	9.4	3.8	4.3	5.1	5.2	75.7	100.0
Miscellaneous manufactures	399	11.6	10.9	5.1	4.6	6.5	6.4	110.8	83.1
Brooms and brushes	3991	13.5	14.0	5.7	6.1	7.8	7.9	112.5	121.9
Signs and advertising specialties	3993	12.3	11.6	5.1	4.8	7.2	6.8	110.3	89.4
Manufacturing industries, n.e.c.	3999	10.1	9.2	5.1	4.0	5.0	5.1	112.5	63.5
Nondurable goods		10.4	10.0	5.0	4.8	5.4	5.2	98.0	97.5
Food and kindred products	20	16.9	16.2	8.4	8.2	8.4	8.0	161.2	160.0
Meat products	201	21.5	20.1	10.3	10.0	11.2	10.0	181.0	181.4
Meat packing plants	2011	27.7	28.7	13.4	14.4	14.3	14.3	238.4	250.1
Sausages and other prepared meats	2013	18.9	16.6	10.6	8.7	8.3	7.8	204.1	158.1
Poultry slaughtering and processing	2015	18.3	15.4	8.0	7.5	10.3	7.9	129.9	142.9
Dairy products	202	16.4	15.3	8.9	8.0	7.6	7.3	179.9	160.5
Creamery butter	2021	15.9	19.0	7.8	8.7	8.1	10.3	154.2	160.4
Cheese, natural and processed	2022	17.4	14.7	9.0	7.4	8.3	7.2	154.7	114.2
Dry, condensed, evaporated products	2023	11.1	11.1	5.7	5.5	5.4	5.6	108.8	138.9
Ice cream and frozen desserts	2024	16.0	14.6	8.4	8.1	7.6	6.5	141.2	144.9
Fluid milk	2026	17.2	16.8	9.6	8.9	7.6	7.9	219.1	194.7
Preserved fruits and vegetables	203	16.9	15.3	8.1	7.3	8.8	8.0	147.8	122.1
Canned specialties	2032	19.4	17.7	7.9	8.2	11.5	9.5	135.1	146.7
Canned fruits and vegetables	2033	16.1	15.4	8.5	6.8	10.6	8.6	138.9	112.3
Dehydrated fruits, vegetables, soups	2034	16.5	14.2	8.7	7.8	7.8	6.4	163.1	157.1
Pickles, sauces, and salad dressings	2035	12.2	15.6	6.7	7.3	5.5	8.3	118.1	120.6
Frozen fruits and vegetables	2037	13.8	15.2	7.0	7.1	6.8	8.1	143.0	122.1
Frozen specialties, n.e.c.	2038	16.8	14.6	8.9	7.9	7.9	6.7	190.5	116.4
Grain mill products	204	12.7	12.9	6.0	6.7	6.7	6.2	121.4	154.0
Flour and other grain mill products	2041	11.0	11.4	5.9	5.8	5.1	5.6	135.8	145.5
Cereal breakfast foods	2043	11.5	12.2	5.2	6.4	6.3	5.8	106.9	139.4
Rice milling	2044	18.2	17.3	9.8	9.8	8.4	7.6	225.5	289.9
Prepared flour mixes and doughs	2045	22.0	18.5	11.3	8.8	10.7	9.6	226.2	176.7
Wet corn milling	2046	12.5	9.4	4.1	3.2	8.4	6.2	92.8	54.0
Dog and cat food	2047	11.6	12.0	5.4	6.2	6.2	5.8	86.3	132.9
Prepared feeds, n.e.c.	2048	11.9	13.3	5.4	7.3	6.4	5.9	100.8	172.4
Bakery products	205	13.1	13.3	6.9	7.4	6.3	5.9	152.2	170.5
Bread, cake, and related products	2051	13.2	13.4	7.1	7.8	6.1	5.6	156.3	183.3
Cookies and crackers	2052	12.5	12.8	6.2	6.1	6.3	6.8	143.9	128.7
Frozen bakery products, except bread	2053	15.3	15.4	7.3	8.1	8.0	7.3	127.3	178.3
Sugar and confectionery products	206	12.7	13.6	6.3	7.1	6.4	6.5	123.9	134.6
Raw cane sugar	2061	25.9	18.9	8.9	11.4	17.0	7.4	167.0	172.0
Cane sugar refining	2062	9.7	10.5	5.2	5.9	4.6	4.6	132.2	160.2
Beet sugar	2063	13.6	16.4	7.3	8.0	6.3	8.4	118.8	154.2
Candy and other confectionery products	2064	12.0	14.1	6.4	6.8	5.5	7.3	125.7	132.9
Chocolate and cocoa products	2066	11.0	12.5	4.9	6.6	6.1	5.9	97.1	115.5
Chewing gum	2067	11.2	11.9	5.5	6.6	5.7	5.3	151.4	124.4
Salted and roasted nuts and seeds	2068	9.4	7.7	5.6	4.9	3.8	2.8	96.8	104.5
Fats and oils	207	14.9	15.0	7.6	7.0	7.3	8.0	163.5	149.6
Cottonseed oil mills	2074	17.7	19.1	8.7	10.5	9.0	8.5	194.2	250.5
Soybean oil mills	2075	11.9	14.4	4.6	4.6	7.3	9.8	103.6	76.3
Vegetable oil mills, n.e.c.	2076	7.9	10.9	4.1	7.0	3.8	3.9	82.3	147.1
Animal and marine fats and oils	2077	18.8	17.7	11.4	9.8	7.4	7.9	232.2	220.7
Edible fats and oils, n.e.c.	2079	13.8	12.3	6.7	5.4	7.1	6.8	150.2	116.8
Beverages	208	18.1	18.0	9.5	9.2	8.6	8.8	183.0	180.2
Malt beverages	2082	15.3	16.7	6.1	6.1	9.1	10.6	145.8	140.3

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Malt	2083	20.0	21.2	10.8	9.6	9.4	11.6	223.8	273.2
Wines, brandy, and brandy spirits	2084	16.8	16.2	7.7	7.6	9.0	8.6	155.4	132.5
Distilled and blended liquors	2085	14.9	14.3	7.7	7.1	7.2	7.2	159.3	129.7
Bottled and canned soft drinks	2086	21.3	20.2	12.1	11.4	9.2	8.7	223.5	220.2
Flavoring extracts and syrups, n.e.c.	2087	7.5	11.3	3.5	5.6	4.0	5.6	48.4	95.4
Miscellaneous food and kindred products	209	15.0	14.6	7.9	7.4	7.1	7.2	152.4	147.7
Canned and cured fish and seafoods	2091	18.5	-	9.3	-	9.2	-	116.0	-
Fresh or frozen prepared fish	2092	19.6	17.8	10.2	8.8	9.3	9.0	159.1	144.5
Roasted coffee	2095	10.3	7.2	4.9	3.7	5.4	3.8	79.7	79.8
Potato chips and similar snacks	2096	14.2	14.1	7.8	7.6	6.4	6.5	154.0	173.9
Macaroni and spaghetti	2098	13.8	-	7.3	-	6.5	-	155.0	-
Food preparations, n.e.c.	2099	13.0	13.1	6.7	6.5	6.2	6.6	186.7	139.0
Tobacco products	21	7.5	6.3	3.1	2.7	4.4	3.6	59.5	50.2
Cigars	212	9.0	-	4.1	-	4.9	-	62.6	-
Chewing and smoking tobacco	213	-	10.9	-	4.6	-	6.3	-	101.1
Tobacco stemming and redrying	214	13.1	11.0	4.9	4.2	6.2	6.8	49.5	51.4
Textile mill products	22	8.9	8.9	3.8	4.0	5.1	4.9	76.8	78.0
Broadwoven fabric mills, cotton	221	6.7	6.9	2.7	3.4	4.0	3.6	47.2	52.6
Broadwoven fabric mills, manmade	222	7.2	6.0	3.1	2.6	4.1	3.4	61.2	51.3
Broadwoven fabric mills, wool	223	7.2	7.3	3.7	3.6	3.4	3.8	112.4	84.6
Narrow fabric mills	224	9.3	10.4	4.7	4.4	4.7	6.0	95.2	89.9
Knitting mills	225	7.7	7.7	3.5	3.7	4.2	4.0	66.8	65.1
Women's hosiery, except socks	2251	4.3	4.6	2.0	2.4	2.3	2.1	42.0	44.7
Hosiery, n.e.c.	2252	6.0	6.5	2.9	3.3	3.1	3.2	59.7	63.6
Knit outerwear mills	2253	6.6	6.1	3.3	3.1	3.3	3.1	60.5	44.2
Knit underwear mills	2254	10.6	9.9	3.6	4.2	7.0	5.7	79.6	66.4
Weft knit fabric mills	2257	10.6	11.6	5.3	5.4	6.3	6.3	101.4	100.0
Lace and warp knit fabric mills	2258	11.5	11.1	5.1	5.2	6.3	5.8	75.6	100.7
Knitting mills, n.e.c.	2259	7.7	6.4	3.0	2.9	4.6	3.5	50.1	78.2
Textile finishing, except wool	226	11.4	10.5	5.1	4.9	6.2	5.6	111.6	113.5
Finishing plants, cotton	2261	11.6	9.9	5.2	4.4	6.4	5.4	112.6	93.4
Finishing plants, manmade	2262	11.2	10.4	4.7	5.0	6.6	5.4	93.7	104.2
Finishing plants, n.e.c.	2269	11.2	12.2	5.9	5.7	5.4	6.6	144.5	177.1
Carpets and rugs	227	9.9	13.2	3.9	5.5	6.0	7.6	101.2	117.8
Yarn and thread mills	228	10.7	9.8	3.9	3.5	6.8	6.2	73.4	75.8
Yarn spinning mills	2281	10.2	9.7	3.6	3.2	6.7	6.5	66.2	73.7
Throwing and winding mills	2282	12.2	9.3	5.4	4.6	6.8	4.8	115.2	89.9
Thread mills	2284	12.1	11.6	4.5	5.1	7.6	6.5	73.0	71.8
Miscellaneous textile goods	229	12.4	12.7	5.4	6.2	7.0	6.5	106.0	118.2
Coated fabrics, not rubberized	2295	15.3	12.7	6.9	5.4	8.4	7.3	112.2	116.6
Tire cord and fabrics	2296	11.6	14.3	5.1	6.5	6.4	7.8	110.3	140.9
Nonwoven fabrics	2297	9.6	8.9	3.8	4.1	5.9	4.8	84.1	85.7
Cordage and twine	2298	15.4	17.2	6.3	6.9	9.1	10.3	115.6	90.0
Textile goods, n.e.c.	2299	11.5	12.9	5.1	7.6	6.3	5.3	108.4	143.4
Apparel and other textile products	23	7.5	7.5	3.3	3.3	4.3	4.2	65.2	66.2
Men's and boys' suits and coats	231	7.9	7.9	3.3	3.7	4.6	4.2	62.6	73.0
Men's and boys' furnishings	232	8.7	8.9	4.0	4.1	4.7	4.9	82.7	91.6
Men's and boys' shirts	2321	6.3	7.3	3.6	3.1	4.6	4.3	60.7	67.6
Men's and boys' underwear and nightwear	2322	9.4	9.3	4.4	4.0	5.0	5.3	65.1	62.2
Men's and boys' trousers and slacks	2325	9.5	10.5	4.3	5.0	5.2	5.5	95.0	124.3
Men's and boys' work clothing	2326	9.2	11.0	4.6	5.3	4.7	5.6	96.0	142.9
Men's and boys' clothing, n.e.c.	2329	8.1	7.0	3.9	2.9	4.2	4.1	83.4	46.4

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Women's and misses' outerwear	233	4.9	4.7	2.0	1.8	2.9	2.9	38.7	35.2
Women's and misses' blouses and shirts	2331	4.8	5.2	1.8	2.1	3.0	3.1	29.4	35.9
Women's and misses' suits and coats	2337	-	4.5	-	1.8	-	2.7	-	32.4
Women's and misses' outerwear, n.e.c.	2339	5.6	5.0	2.3	2.0	3.3	3.0	43.9	39.6
Women's and children's undergarments	234	7.4	7.2	2.6	3.0	4.8	4.1	51.2	64.2
Women's and children's underwear	2341	7.0	7.2	2.4	3.1	4.6	4.1	50.7	67.6
Bras, girdles, and allied garments	2342	9.0	7.1	3.4	3.0	5.6	4.1	53.3	49.7
Hats, caps, and millinery	235	12.5	7.6	4.9	3.3	7.6	4.2	94.5	91.0
Girls' and children's outerwear	236	7.0	7.8	2.6	4.0	4.4	3.8	45.4	61.2
Girls' and children's dresses, blouses	2361	5.6	5.0	1.7	2.1	3.8	2.9	27.7	41.0
Girls' and children's outerwear, n.e.c.	2369	8.0	9.7	3.2	5.3	4.7	4.4	57.4	74.3
Miscellaneous apparel and accessories	238	6.7	8.0	3.0	3.6	3.7	4.4	52.3	80.1
Robes and dressing gowns	2384	6.8	8.4	2.6	2.6	4.1	5.8	47.1	58.0
Waterproof outerwear	2385	7.5	7.1	3.1	4.0	4.5	3.2	75.6	65.3
Apparel belts	2387	6.1	-	3.4	-	2.7	-	48.5	-
Apparel and accessories, n.e.c.	2389	7.3	10.5	2.8	4.6	4.5	5.9	31.5	96.4
Miscellaneous fabricated textile products	239	9.9	9.6	4.4	4.4	5.4	5.3	88.7	76.5
Curtains and draperies	2391	7.1	7.6	3.7	3.4	3.4	4.2	71.3	79.6
Household furnishings, n.e.c.	2392	10.5	10.5	4.5	4.6	6.0	5.9	91.6	71.3
Textile bags	2393	14.4	11.6	6.3	5.5	8.0	6.1	135.1	84.1
Canvas and related products	2394	10.2	9.1	4.9	4.5	5.3	4.5	124.5	104.0
Printing and stitching	2395	8.4	7.3	2.9	3.3	5.5	4.0	60.8	84.0
Automotive and apparel trimmings	2396	10.8	11.3	4.7	4.8	6.1	6.5	82.1	69.4
Fabricated textile products, n.e.c.	2399	9.6	8.0	4.7	3.9	4.9	4.1	93.2	66.7
Paper and allied products	26	11.3	10.5	5.2	4.7	6.1	5.8	115.2	112.8
Pulp mills	261	8.0	9.2	3.8	3.3	4.2	5.9	75.8	63.5
Paper mill	262	10.3	9.4	4.3	3.9	5.9	5.5	109.2	119.8
Paperboard mills	263	12.1	10.9	4.6	4.8	7.5	6.1	108.9	122.9
Paperboard containers and boxes	265	12.8	12.0	6.0	5.4	6.8	6.6	129.9	126.3
Setup paperboard boxes	2652	10.7	10.3	5.5	4.5	5.2	5.8	120.6	100.4
Corrugated and solid fiber boxes	2653	13.5	12.7	6.1	5.8	7.4	7.0	142.8	140.8
Fiber cans, drums and similar products	2655	9.7	10.5	4.9	4.1	4.7	6.4	101.6	122.9
Sanitary food containers	2656	11.2	8.9	6.3	4.7	4.8	4.3	112.7	95.1
Folding paperboard boxes	2657	13.2	11.9	6.2	5.4	7.0	6.5	115.0	107.4
Miscellaneous converted paper products	267	10.8	10.0	5.4	4.8	5.4	5.2	110.9	95.9
Paper coated and laminated, packaging	2671	12.7	10.9	4.9	4.8	7.8	6.1	76.2	93.9
Paper coated and laminated, n.e.c.	2672	7.3	6.6	3.7	2.9	3.6	3.7	60.9	52.9
Bags: plastics, laminated, and coated	2673	11.1	10.9	5.8	5.6	5.4	5.2	120.9	99.9
Bags: uncoated paper and multilayer	2674	13.8	-	6.7	-	7.2	-	135.0	-
Die-cut paper and board	2675	11.0	9.3	5.9	3.9	5.1	5.4	160.9	77.9
Sanitary paper products	2676	-	8.0	-	3.8	-	4.2	-	74.0
Envelopes	2677	11.1	11.8	5.8	6.4	5.2	5.3	119.6	160.9
Stationery products	2678	11.0	9.1	5.4	4.4	5.6	4.7	130.3	136.9
Converted paper products, n.e.c.	2679	13.7	12.4	7.3	5.7	6.4	6.7	152.3	108.2
Printing and publishing	27	6.5	6.3	3.2	3.0	3.3	3.3	63.7	65.3
Newspapers	271	7.0	6.7	3.4	3.2	3.6	3.5	80.8	80.2
Periodicals	272	3.0	2.2	1.7	1.2	1.3	1.1	36.9	27.1
Books	273	5.2	5.1	2.7	2.3	2.5	2.8	47.0	44.5
Book publishing	2731	3.8	3.9	2.0	2.0	1.8	1.8	35.4	43.5
Book printing	2732	6.2	7.5	4.3	2.7	4.0	4.8	71.6	46.4
Miscellaneous publishing	274	3.6	3.3	1.8	1.6	1.8	1.7	30.8	38.0
Commercial printing	275	7.4	7.0	3.7	3.4	3.8	3.6	69.3	69.4
Commercial printing, lithographic	2752	7.1	6.6	3.4	3.2	3.7	3.4	69.6	67.4

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Commercial printing, gravure	2754	10.0	9.7	5.5	4.9	4.5	4.9	115.7	92.4
Commercial printing, n.e.c.	2759	7.9	7.6	4.0	3.7	3.9	3.9	63.7	71.0
Manifold business forms	276	9.1	9.8	3.5	4.2	5.6	5.6	64.6	95.1
Greeting cards	277	6.3	9.0	2.9	5.1	3.4	3.8	44.3	115.1
Blankbooks and bookbinding	278	9.3	9.9	4.6	4.4	4.7	5.5	82.3	77.0
Blankbooks and looseleaf binders	2782	8.5	10.4	4.4	4.3	4.1	6.1	78.0	77.3
Bookbinding and related work	2789	10.7	9.0	5.0	4.6	5.7	4.4	89.5	76.6
Printing trade services	279	-	2.4	-	.9	-	1.5	-	19.5
Chemicals and allied products	28	5.9	5.7	2.9	2.8	3.0	2.9	54.6	54.3
Industrial inorganic chemicals	281	5.1	5.1	2.5	2.6	2.6	2.5	48.0	55.9
Alkalies and chlorine	2812	4.0	6.0	1.6	2.8	2.4	3.2	33.5	54.5
Industrial gases	2813	3.5	4.2	1.7	2.1	1.8	2.1	28.0	57.6
Inorganic pigments	2816	7.6	6.1	4.0	3.2	3.7	2.9	86.6	68.2
Industrial inorganic chemicals, n.e.c.	2819	5.3	-	2.6	-	2.8	-	50.8	-
Plastics materials and synthetics	282	4.6	4.2	2.3	2.2	2.3	2.0	44.3	43.4
Plastics materials and resins	2821	5.3	4.7	2.8	2.5	2.5	2.2	54.2	42.7
Synthetic rubber	2822	7.4	-	3.8	-	3.6	-	66.1	-
Organic fibers, noncellulosic	2824	2.1	2.3	.9	1.1	1.2	1.2	19.0	24.8
Drugs	283	4.8	5.4	2.4	2.7	2.4	2.7	40.0	48.4
Medicinals and botanicals	2833	5.9	6.4	2.9	3.3	2.9	3.0	48.4	72.6
Pharmaceutical preparations	2834	4.6	5.2	2.4	2.6	2.3	2.6	38.1	46.4
Diagnostic substances	2835	5.1	4.0	2.3	1.8	2.8	2.2	28.4	39.3
Biological products except diagnostic	2836	5.7	-	2.7	-	3.0	-	66.1	-
Soap, cleaners, and toilet goods	284	7.8	7.1	3.8	3.7	4.1	3.4	73.4	69.9
Polishes and sanitation goods	2842	10.1	7.4	4.5	3.8	5.7	3.6	69.6	83.7
Surface active agents	2843	9.7	8.9	3.9	3.7	5.8	5.2	49.9	81.7
Toilet preparations	2844	7.4	7.2	3.7	3.8	3.6	3.4	81.9	68.6
Paints and allied products	285	8.7	8.5	4.2	4.3	4.5	4.2	78.3	72.4
Industrial organic chemicals	286	5.2	4.9	2.5	2.3	2.7	2.6	48.2	48.0
Gum and wood chemicals	2861	9.0	10.6	4.8	5.0	3.9	5.6	98.3	101.6
Cyclic oxides and intermediates	2865	7.4	6.9	4.2	3.8	3.2	3.1	59.4	86.3
Industrial organic chemicals, n.e.c.	2869	4.6	4.3	2.1	1.9	2.6	2.4	44.2	37.5
Agricultural chemicals	287	7.6	6.3	3.4	3.0	4.2	3.2	70.9	51.7
Nitrogenous fertilizers	2873	8.6	4.8	3.2	2.2	5.4	2.5	97.5	58.6
Phosphatic fertilizers	2874	8.6	8.4	4.1	4.1	4.4	4.3	79.6	51.9
Fertilizers, mixing only	2875	9.6	11.4	5.0	5.9	4.6	5.4	91.9	103.8
Agricultural chemicals, n.e.c.	2879	6.0	-	2.5	-	3.5	-	48.0	-
Miscellaneous chemical products	289	7.5	7.6	3.8	3.6	3.7	3.9	74.5	63.4
Adhesives and sealants	2891	8.1	7.8	3.8	4.0	4.2	3.9	73.5	66.8
Explosives	2892	-	5.7	-	2.9	-	2.8	-	47.3
Printing ink	2893	8.2	8.9	4.0	4.9	4.2	4.0	73.8	84.6
Carbon black	2895	3.5	3.2	2.4	1.9	1.0	1.4	61.5	25.0
Chemical preparations, n.e.c.	2899	8.0	7.7	4.1	3.3	3.9	4.4	82.0	60.6
Petroleum and coal products	29	6.1	5.7	3.0	2.8	3.1	2.9	74.7	64.8
Petroleum refining	291	4.6	4.4	2.3	2.2	2.3	2.1	57.9	53.6
Asphalt paving and roofing materials	295	11.7	10.2	5.4	4.3	6.2	5.9	143.7	91.2
Asphalt paving mixtures and blocks	2951	12.6	9.4	5.3	3.1	7.2	6.3	162.0	64.8
Asphalt felts and coatings	2952	10.8	10.9	5.4	5.4	5.3	5.5	126.5	114.9
Miscellaneous petroleum and coal products	299	8.1	10.3	4.2	5.4	3.8	4.8	87.2	125.7
Lubricating oils and greases	2992	8.0	10.1	4.1	5.2	3.9	4.9	88.7	111.2
Petroleum and coal products, n.e.c.	2999	8.8	11.5	5.6	7.0	2.9	4.5	71.5	225.1
Rubber and miscellaneous plastics products	30	15.0	13.9	7.2	6.6	7.8	7.2	132.0	129.1

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Tires and inner tubes	301	12.6	14.8	7.9	8.9	4.7	5.9	149.6	184.0
Rubber and plastics footwear	302	14.9	13.8	7.2	7.0	7.7	6.7	121.8	121.1
Hose and belting and gaskets and packing	305	15.7	12.4	6.8	5.4	8.9	7.0	137.4	109.9
Rubber and plastics hose and belting	3052	17.7	12.8	7.9	6.2	9.8	6.6	164.1	124.0
Gaskets, packing and sealing devices	3053	14.3	12.2	6.0	4.9	8.2	7.3	118.7	100.0
Fabricated rubber products, n.e.c.	306	14.7	14.4	7.5	7.2	7.2	7.2	139.5	147.4
Mechanical rubber goods	3061	15.8	15.8	8.4	8.5	7.4	7.4	135.6	167.6
Fabricated rubber products, n.e.c.	3069	13.7	13.2	6.7	6.2	7.0	7.0	142.8	131.2
Miscellaneous plastics products, n.e.c.	308	15.3	13.8	7.1	6.4	8.2	7.4	127.9	120.8
Unsupported plastics film and sheet	3081	13.7	12.5	6.2	5.6	7.5	6.8	110.4	110.7
Unsupported plastics profile shapes	3082	14.7	13.3	6.7	5.2	7.9	6.0	112.8	104.6
Laminated plastics plate and sheet	3083	12.4	12.1	6.0	5.7	6.4	6.4	128.0	115.0
Plastics pipe	3084	17.4	14.8	9.0	6.4	8.3	8.3	163.0	128.4
Plastics bottles	3085	14.3	13.2	7.1	6.2	7.2	7.0	157.6	116.0
Plastics foam products	3086	14.3	13.3	6.7	6.5	7.6	6.8	128.3	124.6
Custom compound purchased resins	3087	15.8	13.8	7.8	6.3	8.0	7.5	156.7	126.7
Plastics plumbing fixtures	3088	16.2	19.0	9.2	9.4	7.0	9.6	142.5	163.1
Plastics products, n.e.c.	3089	15.8	14.1	7.2	6.5	6.6	7.6	125.3	121.6
Leather and leather products	31	10.1	10.2	4.8	4.7	5.3	5.5	105.7	94.9
Leather tanning and finishing	311	17.3	18.3	9.2	10.2	8.0	8.1	177.2	198.1
Footwear cut stock	313	10.5	11.1	6.4	5.9	4.1	5.2	160.9	147.6
Footwear, except rubber	314	9.7	8.9	4.5	3.9	5.3	5.0	97.5	78.0
House slippers	3142	9.8	11.1	4.4	4.6	5.4	6.5	84.5	95.4
Men's footwear, except athletic	3143	10.6	10.1	4.8	4.5	5.9	5.6	125.3	93.9
Women's footwear, except athletic	3144	8.5	6.1	3.9	2.9	4.6	3.2	67.5	58.9
Footwear, except rubber, n.e.c.	3149	9.8	-	4.8	-	5.0	-	91.1	-
Luggage	316	8.3	9.6	3.1	3.7	5.3	6.0	63.6	63.3
Handbags and personal leather goods	317	7.0	7.1	3.6	2.9	3.4	4.2	110.8	56.3
Personal leather goods, n.e.c.	3172	8.5	8.9	4.6	3.7	3.9	5.2	131.9	74.6
Transportation and public utilities ⁵		9.4	9.1	5.4	5.3	3.9	3.7	131.6	136.8
Railroad transportation ⁶	40	7.4	7.3	5.6	5.8	1.7	1.5	208.1	289.6
Local and interurban passenger transit	41	9.6	9.3	5.5	5.5	4.1	3.8	139.3	139.2
Local and suburban transportation	411	13.0	11.3	7.3	6.8	5.7	4.5	166.3	153.2
Taxis	412	-	5.5	-	3.1	-	2.4	-	82.7
School buses	415	7.2	8.4	4.1	4.5	3.1	3.9	93.2	113.9
Trucking and warehousing	42	14.1	14.4	8.4	8.7	5.7	5.7	230.7	233.4
Trucking and courier services, except air	421	14.1	14.4	8.4	8.8	5.6	5.6	235.8	239.8
Public warehousing and storage	422	14.9	14.1	7.9	7.5	7.0	6.6	163.3	154.2
Water transportation	44	11.7	11.4	6.8	6.8	4.9	4.6	226.0	252.9
Water transportation services	449	13.4	13.6	7.8	8.4	5.6	5.2	282.0	327.1
Transportation by air	45	14.8	13.7	8.7	8.0	6.1	5.6	154.5	152.1
Air transportation, scheduled	451	15.4	14.1	9.0	8.4	6.3	5.7	162.1	160.4
Air transportation, nonscheduled	452	7.0	5.9	3.5	3.1	3.5	2.7	66.3	43.0
Airports, flying fields, and services	458	13.4	13.5	7.9	7.1	5.4	6.4	131.5	133.6
Pipelines, except natural gas	46	3.3	3.8	1.4	1.7	1.9	2.1	31.6	37.7
Transportation services	47	3.9	3.6	2.3	2.1	1.6	1.6	37.8	46.8
Freight transportation arrangement	473	5.9	4.9	3.7	3.0	2.2	2.0	62.2	76.3
Miscellaneous transportation services	478	18.1	17.9	9.8	9.9	8.3	8.0	150.9	178.4
Communications	48	3.1	3.0	1.7	1.7	1.4	1.3	35.0	35.4
Telephone communications	481	2.2	2.1	1.4	1.3	.8	.8	32.5	31.4
Telegraph and other communications	482	-	1.6	-	.7	-	.9	-	18.4

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Radio and television broadcasting	483	2.2	2.0	0.9	0.9	1.3	1.1	10.3	18.1
Cable and other pay tv services	484	11.4	11.5	5.7	5.7	5.8	5.8	93.9	95.2
Communication services, n.e.c.	489	3.0	2.5	1.5	1.4	1.6	1.1	23.7	24.2
Electric, gas, and sanitary services	49	7.8	7.3	3.8	3.7	4.0	3.5	71.4	73.0
Electric services	491	6.4	5.7	2.7	2.7	3.7	3.0	53.6	51.9
Gas production and distribution	492	6.4	7.0	3.2	3.7	3.2	3.3	57.3	72.8
Combination utility services	493	5.8	5.5	3.3	3.1	2.4	2.3	71.5	62.4
Water supply	494	11.1	10.5	6.3	5.3	4.8	5.1	100.3	91.8
Sanitary services	495	17.7	14.9	9.3	7.8	8.4	7.1	152.9	161.2
Irrigation systems	497	14.7	13.8	7.1	6.6	7.6	7.2	140.1	109.9
Wholesale and retail trade		7.8	7.5	3.5	3.4	4.3	4.1	63.7	69.7
Wholesale trade		7.3	7.1	3.6	3.6	3.6	3.5	69.5	76.5
Wholesale trade durable goods	50	6.5	6.2	3.0	2.9	3.5	3.3	54.6	60.2
Motor vehicles, parts, and supplies	501	9.0	8.6	4.1	3.9	4.8	4.7	71.7	76.3
Furniture and home furnishings	502	7.8	6.2	4.1	2.9	3.7	3.2	65.3	64.1
Lumber and construction materials	503	11.0	9.8	5.8	4.9	5.2	5.0	102.2	123.7
Professional and commercial equipment	504	2.9	3.1	1.3	1.5	1.6	1.6	27.6	33.0
Metals and minerals, except petroleum	505	12.9	11.7	6.1	5.6	6.9	6.1	103.4	111.9
Electrical goods	506	3.3	3.6	1.5	1.6	1.8	2.0	30.1	31.8
Hardware, plumbing and heating equipment	507	5.8	5.8	2.5	2.5	3.4	3.3	42.2	45.9
Machinery, equipment, and supplies	508	7.0	6.8	2.8	2.9	4.2	3.8	49.5	63.5
Miscellaneous durable goods	509	8.7	8.6	4.7	4.6	4.1	4.0	69.6	66.7
Wholesale trade nondurable goods	51	8.4	8.4	4.8	4.6	3.8	3.7	91.0	99.8
Paper and paper products	511	5.4	7.3	2.6	4.1	2.8	3.2	42.9	77.7
Drugs, proprietaries, and sundries	512	4.5	6.2	2.3	3.2	2.2	3.0	52.6	64.7
Apparel, piece goods, and notions	513	4.3	-	2.1	-	2.2	-	36.0	-
Groceries and related products	514	12.1	11.8	7.0	6.7	5.1	5.0	138.8	148.6
Farm-product raw materials	515	8.8	8.8	4.2	4.2	4.5	4.6	83.5	105.1
Chemicals and allied products	516	5.8	-	3.1	-	2.7	-	74.4	-
Petroleum and petroleum products	517	5.3	5.5	2.4	2.9	2.8	2.6	50.0	64.3
Beer, wine, and distilled beverages	518	13.3	12.2	7.5	7.0	5.8	5.3	155.3	149.9
Miscellaneous nondurable goods	519	7.0	6.3	3.7	3.5	3.3	2.7	70.0	69.3
Retail trade		8.0	7.6	3.4	3.3	4.6	4.3	61.4	67.0
Building materials and garden supplies	52	10.0	9.7	5.1	4.8	4.9	4.8	83.5	89.9
Lumber and other building materials	521	12.2	12.0	6.4	6.1	5.8	6.0	102.9	102.9
Paint, glass, and wallpaper stores	523	8.2	5.6	3.8	2.6	4.4	3.0	44.7	53.7
Hardware stores	525	6.2	5.9	2.9	2.8	3.3	3.1	44.3	66.2
Retail nurseries and garden stores	526	7.7	7.5	3.5	3.5	4.3	3.9	60.8	61.2
General merchandise stores	53	10.7	10.8	4.9	5.1	5.8	5.7	86.3	97.9
Department stores	531	11.1	11.0	5.1	5.3	6.0	5.8	90.1	99.4
Variety stores	533	8.9	10.3	3.9	4.8	5.1	5.4	69.7	90.7
Miscellaneous general merchandise stores	539	8.8	8.8	4.1	4.1	4.6	4.7	66.4	90.0
Food stores	54	11.3	10.9	4.9	4.8	6.5	6.1	95.6	111.9
Grocery stores	541	12.1	11.7	5.1	5.1	7.0	6.6	102.2	118.0
Automotive dealers and service stations	55	6.9	6.7	2.7	2.7	4.2	4.0	49.3	52.3
New and used car dealers	551	7.8	7.7	2.7	2.7	5.1	5.0	45.7	47.4
Auto and home supply stores	553	9.4	8.8	4.3	3.9	5.0	4.9	62.5	63.5
Gasoline service stations	554	4.5	4.1	1.9	1.9	2.5	2.1	40.4	41.0
Apparel and accessory stores	56	3.6	3.9	1.5	1.6	2.0	2.2	33.6	36.0
Women's clothing stores	562	3.6	3.2	1.4	1.1	2.2	2.1	37.4	21.2
Family clothing stores	565	5.9	5.9	2.8	2.9	3.3	3.0	49.1	78.9
Shoe stores	566	2.8	3.2	1.4	1.4	1.4	1.8	35.9	20.5
Furniture and home furnishings stores	57	4.8	4.6	2.1	2.3	2.4	2.3	38.8	47.5
Furniture and home furnishings stores	571	5.5	5.7	2.7	3.0	2.8	2.7	46.6	61.5
Household appliance stores	572	5.8	5.5	2.4	2.7	3.5	2.8	56.6	57.0
Radio, television, and computer stores	573	2.5	2.7	1.0	1.3	1.5	1.5	15.2	23.9
Eating and drinking places	58	6.4	7.4	3.2	2.9	5.2	4.5	52.2	53.6

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Miscellaneous retail	59	4.2	3.9	2.1	1.8	2.1	2.1	39.4	39.3
Drug stores and proprietary stores	591	4.0	3.9	1.8	1.8	2.1	2.1	30.0	36.3
Miscellaneous shopping goods stores	594	3.4	3.4	1.6	1.3	1.7	2.0	25.7	24.9
Nonstore retailers	596	7.0	7.1	3.3	3.7	3.7	3.4	63.4	76.7
Fuel dealers	598	8.3	6.2	4.6	3.4	3.7	2.9	90.5	78.8
Retail stores, n.e.c.	599	2.6	-	1.4	-	1.2	-	33.3	-
Finance, insurance, and real estate		2.3	2.3	1.1	1.0	1.2	1.2	24.8	21.5
Depository institutions	60	2.0	1.7	.8	.7	1.2	1.0	16.8	15.3
Commercial banks	602	1.8	1.8	.7	.7	1.1	1.1	15.9	17.1
Savings institutions	603	2.8	-	1.2	-	1.7	-	22.2	-
Nondepository institutions	61	.7	1.0	.3	.4	.4	.6	7.3	9.1
Federal and federal-sponsored credit	611	.8	-	.3	-	.4	-	7.6	-
Security and commodity brokers	62	.9	-	.6	-	.4	-	27.2	-
Security brokers and dealers	621	.6	-	.3	-	.3	-	5.2	-
Insurance carriers	63	1.9	2.1	.8	.9	1.1	1.2	21.2	15.2
Life insurance	631	1.9	2.1	.9	1.1	1.0	1.0	22.7	18.7
Medical service and health insurance	632	2.5	2.3	.9	.8	1.6	1.5	16.1	14.4
Fire, marine, and casualty insurance	633	2.0	2.2	.9	.9	1.1	1.3	25.7	14.0
Pension, health, and welfare funds	637	.7	-	.2	-	.5	-	5.0	-
Insurance agents, brokers, and service	64	1.2	1.3	.6	.4	.6	.9	17.5	7.9
Real estate	65	4.7	5.2	2.5	2.7	2.2	2.5	52.1	59.3
Real estate operators and lessors	651	5.9	6.5	3.1	3.5	2.8	3.0	59.8	75.1
Real estate agents and managers	653	3.5	3.9	1.8	1.9	1.6	2.0	46.2	41.9
Subdividers and developers	655	6.0	7.1	3.2	4.1	2.8	3.0	55.8	85.1
Holding and other investment offices	67	2.4	2.5	1.1	1.2	1.3	1.2	26.9	23.1
Holding offices	671	2.7	2.6	1.2	1.1	1.5	1.5	18.1	22.1
Services		5.9	5.9	2.7	2.8	3.1	3.2	54.6	57.7
Hotels and other lodging places	70	10.5	10.0	4.8	4.8	5.7	5.2	94.5	97.3
Hotels and motels	701	10.4	10.2	4.9	4.9	5.6	5.3	96.0	99.3
Membership-basis organization hotels	704	11.2	-	2.7	-	8.5	-	93.6	-
Personal services	72	3.5	3.8	1.6	1.8	1.9	2.0	31.6	44.6
Laundry, cleaning, and garment services	721	6.8	6.9	3.2	3.6	3.6	3.3	60.2	83.4
Business services	73	4.9	5.0	2.5	2.5	2.4	2.5	50.2	60.1
Mailing, reproduction, stenographic	733	4.1	4.2	2.4	2.1	1.8	2.1	37.3	34.7
Services to buildings	734	7.8	8.0	4.3	4.6	3.4	3.4	66.9	135.7
Miscellaneous equipment rental and leasing	735	9.5	-	5.1	-	4.5	-	133.7	-
Personnel supply services	736	7.5	8.4	3.7	4.1	3.8	4.4	66.2	84.3
Computer and data processing services	737	1.1	1.5	.4	.6	.7	.9	10.0	10.5
Miscellaneous business services	738	4.7	4.8	2.3	2.4	2.3	2.3	47.0	53.5
Auto repair, services, and parking	75	7.3	6.4	3.3	3.1	3.9	3.3	69.6	69.8
Automotive rentals, no drivers	751	8.7	8.5	3.9	4.1	4.7	4.4	100.5	96.2
Automobile parking	752	4.4	3.2	2.5	1.8	1.8	1.4	67.8	45.4
Automotive repair shops	753	6.7	6.2	2.9	2.9	3.8	3.3	57.0	65.3
Automotive services, except repair	754	8.9	6.0	4.4	3.3	4.5	2.7	72.7	64.8
Miscellaneous repair services	76	8.2	7.5	3.8	3.7	4.3	3.8	76.8	74.4
Electrical repair shops	762	5.7	5.2	2.8	2.6	2.9	2.6	57.2	51.2
Miscellaneous repair shops	769	9.9	9.3	4.6	4.5	5.4	4.8	90.8	89.7
Motion pictures	78	3.5	3.5	1.3	1.0	2.2	2.5	22.4	16.3
Motion picture production and services	781	4.4	4.6	1.7	1.2	2.7	3.5	29.8	18.4
Motion picture distribution and services	782	4.7	-	1.6	-	3.0	-	25.1	-
Motion picture theaters	783	5.2	4.7	1.7	1.3	3.5	3.4	25.5	21.0
Amusement and recreation services	79	8.7	8.5	4.0	3.9	4.7	4.6	68.1	69.0
Bowling centers	793	4.3	3.4	1.6	1.1	2.7	2.3	18.2	21.8
Miscellaneous amusement, recreation services	799	9.1	8.5	4.4	4.1	4.8	4.3	73.1	70.3

See footnotes at end of table.

Table 3. Occupational injury incidence rates by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³							
		Total cases ⁴		Lost workday cases		Nonfatal cases without lost workdays		Lost workdays	
		1990	1991	1990	1991	1990	1991	1990	1991
Health services	80	6.1	8.5	3.8	3.8	4.3	4.7	79.0	78.1
Nursing and personal care facilities	805	15.4	15.0	9.0	8.6	6.5	6.4	188.9	184.6
Hospitals	806	10.0	10.8	4.1	4.1	6.0	6.7	79.2	78.7
Legal services	81	.6	.6	.3	.3	.3	.3	5.5	10.1
Educational services	82	3.7	3.7	1.7	1.7	2.0	2.0	30.6	32.2
Elementary and secondary schools	821	-	3.6	-	2.3	-	1.3	-	43.9
Colleges and universities	822	4.3	4.2	1.8	1.7	2.5	2.6	29.6	29.7
Social services	83	6.3	6.4	3.0	3.2	3.3	3.2	57.5	64.0
Individual and family services	832	4.4	3.8	2.3	2.1	2.2	1.7	53.7	58.1
Job training and related services	833	9.7	9.7	4.4	4.5	5.3	5.1	66.9	80.5
Child day care services	835	3.4	3.4	1.5	1.7	2.0	1.6	26.3	33.5
Residential care	836	9.4	10.0	4.8	4.8	4.7	5.1	89.6	92.9
Social services, n.e.c.	839	4.8	5.1	2.1	2.6	2.7	2.6	41.5	33.4
Museums, botanical, zoological gardens	84	7.0	6.0	3.0	2.9	4.0	3.1	47.0	48.9
Museums and art galleries	841	5.3	4.6	2.2	2.1	3.1	2.4	33.4	40.9
Botanical and zoological gardens	842	12.8	11.4	5.9	5.8	6.9	5.6	93.9	79.4
Engineering and management services	87	2.0	2.1	.9	1.0	1.1	1.2	14.8	20.3
Engineering and architectural services	871	2.0	2.1	.9	.9	1.1	1.2	13.1	19.3
Accounting, auditing, and bookkeeping	872	.6	.8	.3	.4	.3	.3	4.8	8.5
Research and testing services	873	2.7	3.1	1.2	1.3	1.5	1.8	22.8	25.5
Management and public relations	874	2.9	2.5	1.2	1.2	1.7	1.4	19.2	27.8

¹ Totals for divisions and 2- and 3-digit SIC codes include data for industries not shown separately.

² Standard Industrial Classification Manual, 1987 Edition.

³ Incidence rates represent the number of injuries or lost workdays per 100 full-time workers and were calculated as: (N/EH) X 200,000 where, N = number of injuries or lost workdays, EH = total hours worked by all employees during the calendar year, 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

⁴ Includes fatalities. Because of rounding, the difference between the total and the sum of the rates for lost workday cases and nonfatal cases without lost workdays may not reflect the fatality rate.

⁵ Excludes farms with fewer than 11 employees.

⁶ Data conforming to OSHA definitions for employers in the railroad industry and for mining operators in coal, metal, and nonmetal mining were provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation and the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

n.e.c. = not elsewhere classified.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines. Because of rounding, components may not add to totals.

Table 4. Occupational injury incidence rates by industry division and employment size, 1990 and 1991

Industry division	Establishment employment size (workers)							
	1 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 to 2,499	2,500 or more
	Incidence rates per 100 full-time workers ¹							
Private industry: ²								
1990	3.6	7.7	10.2	11.2	10.4	9.4	8.6	8.8
1991	3.5	7.0	9.6	10.8	9.8	9.0	8.9	8.6
Agriculture, forestry, and fishing: ²								
1990	6.9	10.5	14.5	14.5	13.4	10.7	-	-
1991	6.6	9.3	12.5	13.9	13.5	12.4	-	-
Mining: ³								
1990	6.2	11.4	9.6	8.4	7.9	7.0	3.7	3.0
1991	6.1	8.9	8.6	7.8	7.9	5.9	3.7	1.3
Construction:								
1990	8.9	16.1	19.5	19.1	16.3	12.4	-	-
1991	8.6	15.2	17.7	16.4	13.9	10.7	-	-
Manufacturing:								
1990	6.9	12.6	14.6	14.5	12.8	10.7	9.3	10.3
1991	6.8	11.7	13.5	13.7	11.5	9.9	9.4	10.3
Durable goods:								
1990	9.0	15.1	16.7	16.0	13.5	10.9	9.5	11.0
1991	8.9	13.6	15.2	14.8	12.2	10.1	9.5	11.2
Nondurable goods:								
1990	3.8	8.7	12.1	12.8	11.9	10.4	9.1	6.7
1991	3.8	8.8	11.5	12.4	10.9	9.8	9.3	6.2
Transportation and public utilities: ³								
1990	5.0	9.3	11.5	11.7	9.2	9.2	8.4	10.0
1991	4.7	9.0	11.3	10.3	8.7	8.6	10.4	9.4
Wholesale and retail trade:								
1990	3.0	6.7	9.4	11.0	11.5	12.0	12.0	12.7
1991	3.1	6.2	8.7	11.1	11.1	10.8	12.2	12.0
Wholesale trade:								
1990	3.5	7.0	9.8	10.9	9.4	10.9	8.4	7.2
1991	3.6	7.1	8.9	10.9	10.1	9.4	9.5	11.4
Retail trade:								
1990	2.7	6.6	9.3	11.1	12.4	12.3	12.7	12.9
1991	2.9	5.7	8.7	11.1	11.5	11.2	12.7	12.0
Finance, insurance, and real estate:								
1990	1.7	2.7	2.1	2.7	2.5	2.7	2.1	1.9
1991	1.6	2.0	2.8	3.1	3.1	2.3	2.2	1.8
Services:								
1990	1.8	3.4	6.4	8.5	8.6	8.2	8.5	7.5
1991	1.7	3.4	6.7	8.9	8.1	8.7	8.8	7.6

¹ Incidence rates represent the number of injuries per 100 full-time workers and were calculated as: $(N/EH) \times 200,000$ where,

N = number of injuries,

EH = total hours worked by all employees during the calendar year, 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

² Excludes farms with fewer than 11 employees.

³ Data conforming to OSHA definitions for employers in the railroad industry and for mining operators in coal, metal, and nonmetal mining were provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation and the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines.

Table 5. Occupational injury incidence rates for lost workday cases by industry, 1990 and 1991

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³											
		Lost workday injuries						Lost workdays					
		Total lost workday cases		Cases involving days away from work ⁴		Cases involving days of restricted work activity only		Total lost workdays		Days away from work		Days of restricted work activity ⁵	
		1990	1991	1990	1991	1990	1991	1990	1991	1990	1991	1990	1991
Private industry ⁶		3.9	3.7	3.3	3.1	0.6	0.6	78.3	79.8	65.8	65.5	12.5	14.3
Agriculture, forestry, and fishing ⁶		5.7	5.2	5.2	4.7	.5	.6	108.9	104.6	94.2	90.7	14.8	13.9
Agricultural production ⁶	01-02	6.3	5.5	5.7	4.9	.6	.6	116.6	111.4	98.5	94.7	18.0	16.7
Agricultural services	07	5.2	5.0	4.9	4.5	.3	.5	102.6	98.9	90.6	87.1	12.1	11.7
Forestry	08	5.3	5.4	4.8	4.9	.5	.6	107.5	105.4	94.0	93.5	13.5	11.9
Fishing, hunting, and trapping	09	3.7	3.7	3.4	3.4	.3	.4	84.2	100.0	79.1	96.1	-	3.8
Mining ⁷		4.9	4.4	4.4	3.9	.5	.5	117.7	127.8	108.1	116.2	9.5	11.5
Metal mining ⁷	10	4.0	3.8	3.2	2.8	.8	1.0	57.6	77.1	43.0	57.9	14.7	19.2
Coal mining ⁷	12	8.1	8.2	7.7	7.8	.3	.3	139.0	184.7	133.1	176.9	6.0	7.8
Oil and gas extraction	13	4.1	3.4	3.7	3.0	.4	.5	136.5	132.6	126.7	121.7	9.8	10.9
Nonmetallic minerals, except fuels ⁷	14	4.1	4.1	3.5	3.3	.6	.7	60.0	72.4	49.4	57.9	10.6	14.5
Construction		6.6	6.0	6.1	5.5	.5	.5	146.1	146.2	135.7	135.0	10.5	11.3
General building contractors	15	6.3	5.5	5.8	5.0	.6	.4	135.9	130.0	124.0	120.2	11.9	9.8
Heavy construction, except building	16	6.2	5.9	5.6	5.3	.6	.6	143.7	159.1	133.7	146.7	10.0	12.5
Special trade contractors	17	6.8	6.2	6.4	5.8	.5	.4	151.2	149.3	141.2	137.8	10.0	11.5
Manufacturing		5.3	5.0	3.9	3.6	1.3	1.4	103.0	101.1	79.1	74.0	23.9	27.1
Durable goods		5.5	5.1	4.1	3.7	1.4	1.4	106.5	103.8	82.1	76.5	24.4	27.3
Lumber and wood products	24	8.6	8.1	7.3	6.7	1.3	1.3	164.3	163.9	137.7	135.5	26.6	28.4
Furniture and fixtures	25	7.2	6.7	5.5	4.8	1.7	1.8	122.9	114.2	94.3	83.3	28.7	30.9
Stone, clay, and glass products	32	7.0	6.5	5.5	4.9	1.5	1.6	150.9	144.8	123.7	114.2	27.2	30.6
Primary metal industries	33	7.7	7.0	5.7	4.9	2.0	2.1	167.0	155.7	131.1	115.1	35.9	40.6
Fabricated metal products	34	7.5	6.7	5.9	5.0	1.6	1.6	141.6	130.3	114.3	101.4	27.3	29.0
Industrial machinery and equipment	35	4.4	4.1	3.5	3.1	.9	.9	79.4	75.6	62.4	57.7	16.9	17.9
Electronic and other electric equipment	36	3.3	3.1	2.3	2.1	1.0	1.0	59.3	61.1	42.7	41.0	16.6	20.1
Transportation equipment	37	6.0	6.0	3.9	3.7	2.1	2.2	123.6	129.6	87.0	86.6	36.6	43.1
Instruments and related products	38	2.2	2.2	1.5	1.5	.7	.7	41.0	45.6	28.0	31.2	13.0	14.4
Miscellaneous manufacturing industries	39	4.6	4.6	3.8	3.5	.9	1.1	93.7	84.2	77.1	64.3	16.6	19.9
Nondurable goods		5.0	4.8	3.7	3.4	1.3	1.4	98.0	97.5	74.8	70.6	23.2	26.8
Food and kindred products	20	8.4	8.2	6.1	5.7	2.3	2.5	161.2	160.0	120.3	112.4	40.9	47.6
Tobacco products	21	3.1	2.7	2.6	2.3	.5	.4	59.5	50.2	54.6	44.8	4.9	5.4
Textile mill products	22	3.8	4.0	2.3	2.2	1.5	1.8	76.8	78.0	54.6	50.6	22.1	27.4
Apparel and other textile products	23	3.3	3.3	2.7	2.7	.6	.6	65.2	66.2	54.7	54.8	10.5	11.4
Paper and allied products	26	5.2	4.7	3.7	3.2	1.5	1.5	115.2	112.8	85.7	80.1	29.5	32.6
Printing and publishing	27	3.2	3.0	2.7	2.5	.4	.5	63.7	65.3	54.5	53.4	9.3	11.9
Chemicals and allied products	28	2.9	2.8	1.8	1.8	1.1	1.1	54.6	54.3	36.2	34.1	18.3	20.1
Petroleum and coal products	29	3.0	2.8	2.0	1.8	.9	1.2	74.7	64.8	53.2	39.5	21.5	25.4
Rubber and miscellaneous plastics products	30	7.2	6.6	5.4	4.8	1.8	1.8	132.0	129.1	101.8	95.9	30.2	33.2
Leather and leather products	31	4.8	4.7	4.1	3.8	.8	.9	105.7	94.9	89.7	76.4	16.0	18.5
Transportation and public utilities ⁷		5.4	5.3	4.7	4.5	.8	.8	131.8	136.8	114.8	118.3	16.8	18.6
Railroad transportation ⁷	40	5.6	5.8	5.0	5.1	.7	.7	208.1	289.6	192.0	267.6	16.2	21.9
Local and interurban passenger transit	41	5.5	5.5	5.1	5.1	.3	.4	139.3	139.2	129.4	126.2	9.9	13.0
Trucking and warehousing	42	8.4	8.7	7.5	7.5	.9	1.1	230.7	233.4	212.8	212.4	17.9	21.0
Water transportation	44	6.8	6.8	6.6	6.3	.2	.5	226.0	252.9	221.5	243.5	4.5	9.4
Transportation by air	45	6.7	8.0	7.7	7.1	1.0	.9	154.5	152.1	133.4	132.1	21.0	20.0
Pipelines, except natural gas	46	1.4	1.7	1.3	1.6	-	.2	31.6	37.7	23.0	32.8	8.7	4.9
Transportation services	47	2.3	2.1	2.1	1.8	-	.3	37.8	48.8	35.3	40.9	-	5.9
Communications	48	1.7	1.7	1.4	1.3	.4	.4	35.0	35.4	20.1	22.4	14.9	13.0
Electric, gas, and sanitary services	49	3.8	3.7	2.5	2.3	1.3	1.4	71.4	73.0	48.0	45.7	23.4	27.3
Wholesale and retail trade		3.5	3.4	3.1	2.9	.4	.4	63.7	69.7	55.0	59.0	8.8	10.7
Wholesale trade		3.6	3.6	3.1	3.1	.5	.5	69.5	76.5	58.7	63.3	10.8	13.2
Wholesale trade durable goods	50	3.0	2.9	2.6	2.4	.4	.5	54.6	60.2	45.1	49.0	9.5	11.1

See footnotes at end of table.

Table 5. Occupational injury incidence rates for lost workday cases by industry, 1990 and 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 100 full-time workers ³											
		Lost workday injuries						Lost workdays					
		Total lost workday cases		Cases involving days away from work ⁴		Cases involving days of restricted work activity only		Total lost workdays		Days away from work		Days of restricted work activity ⁵	
		1990	1991	1990	1991	1990	1991	1990	1991	1990	1991	1990	1991
Wholesale trade nondurable goods	51	4.6	4.6	4.0	4.0	0.6	0.7	91.0	99.8	78.3	83.7	12.7	16.1
Retail trade		3.4	3.3	3.0	2.9	.4	.4	61.4	67.0	53.5	57.2	7.9	9.7
Building materials and garden supplies	52	5.1	4.8	4.3	3.9	.8	.9	83.5	89.9	67.9	73.4	15.6	16.5
General merchandise stores	53	4.9	5.1	4.0	4.1	.9	1.1	88.3	97.9	67.9	71.9	20.3	26.0
Food stores	54	4.9	4.8	4.6	4.4	.3	.3	95.8	111.9	87.5	97.9	8.3	14.0
Automotive dealers and service stations	55	2.7	2.7	2.4	2.4	.2	.3	49.3	52.3	44.9	47.3	4.4	5.0
Apparel and accessory stores	56	1.5	1.6	1.4	1.4	.2	.2	33.6	38.0	26.9	32.6	6.7	5.3
Furniture and home furnishings stores	57	2.1	2.3	1.9	2.0	.3	.3	38.8	47.5	32.1	39.2	6.7	8.3
Eating and drinking places	58	3.2	2.9	2.9	2.6	.2	.2	52.2	53.6	47.8	49.2	4.4	4.4
Miscellaneous retail	59	2.1	1.8	1.8	1.6	.2	.2	39.4	39.3	34.1	32.9	5.3	6.4
Finance, insurance, and real estate		1.1	1.0	1.0	.9	.1	.1	24.8	21.5	21.9	17.5	2.9	4.0
Depository institutions	60	.8	.7	.8	.6	.1	.1	16.8	15.3	14.7	11.5	2.1	3.8
Nondepository institutions	61	.3	.4	.3	.3	-	(⁶)	7.3	9.1	6.4	8.0	1.0	1.1
Security and commodity brokers	62	.6	-	.5	-	-	-	27.2	-	25.1	-	2.1	-
Insurance carriers	63	.8	.9	.8	.9	.1	.1	21.2	15.2	18.7	12.9	2.6	2.3
Insurance agents, brokers, and service	64	.6	.4	.5	.3	.1	-	17.5	7.9	15.0	6.5	2.5	1.4
Real estate	65	2.5	2.7	2.2	2.4	.3	.3	52.1	59.3	45.9	48.8	6.1	10.5
Holding and other investment offices	67	1.1	1.2	1.0	1.1	.1	.1	28.9	23.1	26.5	18.6	2.4	4.5
Services		2.7	2.8	2.5	2.4	.3	.3	54.6	57.7	46.6	48.2	8.0	9.4
Hotels and other lodging places	70	4.8	4.8	4.2	4.1	.6	.7	94.5	97.3	80.5	80.8	13.9	16.5
Personal services	72	1.6	1.8	1.5	1.6	.1	.2	31.6	44.6	27.7	38.9	3.9	5.7
Business services	73	2.5	2.5	2.3	2.3	.2	.3	50.2	60.1	45.4	53.4	4.8	6.6
Auto repair, services, and parking	75	3.3	3.1	3.0	2.8	.3	.3	69.6	69.8	64.0	62.1	5.6	7.6
Miscellaneous repair services	76	3.8	3.7	3.4	3.3	.4	.4	76.8	74.4	68.2	65.6	8.5	8.8
Motion pictures	78	1.3	1.0	1.2	.9	.1	.1	22.4	16.3	19.9	14.4	2.4	1.9
Amusement and recreation services	79	4.0	3.9	3.4	3.1	.6	.8	68.1	69.0	56.1	53.0	12.0	16.0
Health services	80	3.8	3.8	3.4	3.3	.4	.5	79.0	78.1	64.7	63.9	14.4	14.2
Legal services	81	.3	.3	.3	.3	(⁶)	(⁶)	5.5	10.1	4.8	5.7	-	4.4
Educational services	82	1.7	1.7	1.6	1.6	.1	.1	30.6	32.2	27.9	26.9	2.7	5.3
Social services	83	3.0	3.2	2.7	2.9	.4	.3	57.5	64.0	49.8	53.2	7.7	10.8
Museums, botanical, zoological gardens	84	3.0	2.9	2.5	2.4	.5	.5	47.0	48.9	35.3	34.1	11.7	14.8
Engineering and management services	87	.9	1.0	.7	.8	.1	.1	14.8	20.3	11.8	16.5	3.0	3.8

¹ Industry division totals include data for industries not shown separately.² Standard Industrial Classification Manual, 1987 Edition.³ Incidence rates represent the number of lost workday injuries or lost workdays per 100 full-time workers and were calculated as: (N/EH) X 200,000 where,

N = number of lost workday injuries or lost workdays,

EH = total hours worked by all employees during the calendar year, 200,000 = base for 100 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

⁴ Also includes cases which involved both days away from work and days of restricted work activity.⁵ Days of restricted work activity include those resulting from cases

involving restricted work only and days resulting from cases involving days away from work and days of restricted work activity.

⁶ Excludes farms with fewer than 11 employees.⁷ Data conforming to OSHA definitions for employers in the railroad industry and for mining operators in coal, metal, and nonmetal mining were provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation and the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.⁸ Incidence rates less than 0.05.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines. Because of rounding, components may not add to totals.

Table 6. Number of occupational injuries and illnesses by industry, 1991

Industry ¹	SIC code ²	Injuries and illnesses			Injuries			Illnesses		
		Total cases (thousands)	Lost workday cases (thousands)	Average lost workdays per lost workday case	Total cases (thousands)	Lost workday cases (thousands)	Average lost workdays per lost workday case	Total cases (thousands)	Lost workday cases (thousands)	Average lost workdays per lost workday case
Private industry ³		6,345.7	2,944.2	22	5,977.4	2,794.0	21	368.3	150.2	33
Agriculture, forestry, and fishing ³		111.2	56.3	20	105.1	54.3	20	6.1	2.0	19
Agricultural production ³	01-02	54.9	26.9	20	51.8	25.9	20	3.1	1.0	-
Agricultural services	07	53.1	27.9	20	50.5	27.0	20	2.7	.9	14
Forestry	08	2.3	1.0	19	2.1	.9	19	.3	(⁴)	8
Fishing, hunting, and trapping	09	.8	.5	28	.7	.4	27	(⁴)	(⁴)	48
Mining ³		52.2	31.9	29	50.5	31.4	29	1.7	.5	27
Metal mining ³	10	3.2	1.9	21	3.1	1.8	20	.1	.1	37
Coal mining ³	12	14.6	10.9	23	13.8	10.7	23	.8	.1	27
Oil and gas extraction	13	25.7	13.9	39	25.2	13.7	39	.5	.2	28
Nonmetallic minerals, except fuels ³	14	8.8	5.2	18	8.4	5.1	18	.3	.1	21
Construction		519.3	242.5	24	512.3	239.9	24	7.0	2.6	28
General building contractors	15	117.5	54.4	24	116.1	53.9	24	1.5	.5	38
Heavy construction, except building	16	86.5	40.5	27	85.0	39.9	27	1.5	.6	12
Special trade contractors	17	315.3	147.7	24	311.2	146.1	24	4.0	1.5	31
Manufacturing		2,247.8	991.4	22	1,992.6	886.0	20	255.2	105.4	34
Durable goods		1,392.2	581.0	22	1,245.2	526.1	20	147.0	54.8	36
Lumber and wood products	24	105.9	52.1	21	102.6	50.8	20	3.3	1.4	37
Furniture and fixtures	25	70.0	31.8	18	64.9	29.4	17	5.1	2.3	32
Stone, clay, and glass products	32	75.7	34.8	23	71.2	33.1	22	4.4	1.7	33
Primary metal industries	33	128.8	53.5	23	119.7	51.0	22	9.1	2.5	39
Fabricated metal products	34	228.9	94.1	21	211.0	88.0	20	17.9	6.1	35
Industrial machinery and equipment	35	221.2	86.7	20	205.1	80.5	19	16.2	6.2	35
Electronic and other electric equipment	36	132.8	57.5	22	111.3	47.9	20	21.5	9.6	35
Transportation equipment	37	333.2	127.0	24	277.5	108.8	22	55.7	18.2	37
Instruments and related products	38	57.1	25.9	24	47.2	21.0	21	9.9	5.0	36
Miscellaneous manufacturing industries	39	38.6	17.5	20	34.7	15.7	18	3.9	1.8	37
Nondurable goods		855.7	410.4	22	747.4	359.9	20	108.2	50.6	33
Food and kindred products	20	317.5	160.2	21	263.2	133.7	19	54.2	26.5	29
Tobacco products	21	3.0	1.3	19	3.0	1.3	18	.1	(⁴)	37
Textile mill products	22	65.1	28.4	20	58.2	26.0	20	6.9	2.4	28
Apparel and other textile products	23	82.4	37.4	24	67.1	29.8	20	15.3	7.7	39
Paper and allied products	26	78.1	34.5	25	72.9	32.8	24	5.2	1.8	39
Printing and publishing	27	91.1	43.4	23	85.0	40.5	22	6.1	2.9	43
Chemicals and allied products	28	68.6	33.3	20	61.4	30.5	19	7.3	2.8	31
Petroleum and coal products	29	10.1	4.8	23	9.3	4.6	23	.8	.2	24
Rubber and miscellaneous plastics products	30	125.8	60.4	21	116.0	55.5	19	9.8	4.9	37
Leather and leather products	31	13.9	6.6	24	11.3	5.2	20	2.6	1.3	38
Transportation and public utilities ³		495.0	289.3	26	481.5	283.5	26	13.4	5.8	30
Railroad transportation ³	40	19.5	15.3	50	18.8	14.9	50	.7	.4	43
Local and interurban passenger transit	41	25.0	14.6	25	24.5	14.4	25	.5	.2	20
Trucking and warehousing	42	219.4	132.2	27	216.9	130.9	27	2.5	1.3	38
Water transportation	44	18.2	10.7	37	17.7	10.6	37	.4	.1	21
Transportation by air	45	88.0	51.8	19	86.0	50.5	19	2.0	1.3	11
Pipelines, except natural gas	46	.8	.3	22	.7	.3	22	(⁴)	(⁴)	40
Transportation service ³	47	11.6	6.7	23	11.2	6.4	22	.5	.3	46
Communications	48	39.5	21.6	22	36.6	20.4	21	2.9	1.3	37
Electric, gas, and sanitary services	49	73.1	36.2	20	69.0	35.2	20	4.1	.9	26
Wholesale and retail trade		1,485.3	672.5	21	1,460.1	661.0	21	25.2	11.5	39
Wholesale trade		410.6	208.4	22	401.6	204.1	21	9.0	4.3	37
Wholesale trade durable goods	50	210.8	98.1	21	206.0	95.9	21	4.8	2.2	38
Wholesale trade nondurable goods	51	199.7	110.3	22	195.6	108.2	22	4.2	2.1	36

See footnotes at end of table.

Table 6. Number of occupational injuries and illnesses by industry, 1987—Continued

Industry ¹	SIC code ²	Injuries and illnesses			Injuries			Illnesses		
		Total cases (thousands)	Lost workday cases (thousands)	Average lost workdays per lost workday case	Total cases (thousands)	Lost workday cases (thousands)	Average lost workdays per lost workday case	Total cases (thousands)	Lost workday cases (thousands)	Average lost workdays per lost workday case
Retail trade		1,074.8	464.2	21	1,058.6	457.0	20	16.2	7.2	40
Building materials and garden supplies	52	63.5	31.6	19	63.1	31.4	19	.4	.2	25
General merchandise stores	53	182.6	87.0	19	180.4	85.8	19	2.1	1.3	34
Food stores	54	254.2	111.4	24	249.2	109.0	23	5.1	2.4	56
Automotive dealers and service stations	55	125.6	50.3	20	123.9	49.7	19	1.6	.6	36
Apparel and accessory stores	56	30.4	12.9	24	29.9	12.6	23	.5	-	-
Furniture and homeluminings stores	57	31.5	16.0	21	31.3	15.9	20	.2	-	-
Eating and drinking places	58	313.6	120.9	19	310.0	119.8	19	3.6	1.1	33
Miscellaneous retail	59	73.5	34.0	22	70.7	32.8	22	2.7	1.3	28
Finance, insurance, and real estate		144.2	66.1	22	135.8	62.2	20	8.3	3.9	39
Depository institutions	60	34.7	14.5	23	33.3	13.7	22	1.4	.8	47
Nondepository institutions	61	3.8	1.6	28	3.5	1.4	23	-	-	-
Security and commodity brokers	62	3.1	1.3	12	2.8	1.1	13	(*)	-	-
Insurance carriers	63	32.8	14.1	19	28.8	12.4	17	4.0	1.7	35
Insurance agents, brokers, and service	64	8.0	2.6	26	7.3	2.3	20	.7	.4	66
Real estate	65	56.6	29.4	22	55.4	29.0	22	1.2	.4	28
Holding and other investment offices	67	5.1	2.6	20	4.8	2.3	19	.3	-	-
Services		1,290.7	594.2	21	1,239.4	575.6	21	51.3	18.6	27
Hotels and other lodging places	70	124.3	59.2	20	121.3	58.2	20	3.0	-	-
Personal services	72	33.6	16.4	24	32.0	15.4	24	1.6	.9	29
Business services	73	185.7	93.4	24	178.1	90.4	24	7.6	3.0	20
Auto repair, services, and parking	75	51.2	24.7	23	50.3	24.5	22	.9	.3	44
Miscellaneous repair services	76	23.1	11.3	20	22.6	11.1	20	.5	.2	36
Motion pictures	78	9.8	2.7	17	9.6	2.7	17	.2	.0	32
Amusement and recreation services	79	58.9	26.8	18	56.8	26.1	18	2.1	.6	24
Health services	80	564.3	248.7	21	539.0	240.6	20	25.3	8.1	24
Legal services	81	5.8	2.7	50	5.0	2.3	35	.8	.4	126
Educational services	82	46.2	21.3	19	45.0	20.9	19	1.2	.3	23
Social services	83	89.8	44.6	20	87.8	43.6	20	2.0	1.0	19
Museums, botanical, zoological gardens	84	3.1	1.5	17	2.9	1.4	17	.2	(*)	21
Engineering and management services	87	49.7	22.1	22	46.2	20.7	21	3.5	1.4	31

¹ Industry division totals include data for industries not shown separately.² Standard Industrial Classification Manual, 1987 Edition.³ Excludes farms with fewer than 11 employees.⁴ Fewer than 50 cases.⁵ Data conforming to OSHA definitions for employers in the railroad industry and for mining operators in coal, metal, and nonmetal mining were provided to BLS by the Federal Railroad Administration, U.S. Department of

Transportation and the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines. Because of rounding, components may not add to totals.

The number of lost workdays for the industries shown in this table can be approximated by multiplying the number of lost workday cases by the average lost workdays per lost workday case.

Table 7. Occupational illness incidence rates by industry and category of illness, 1991

Industry ¹	SIC code ²	Incidence rates per 10,000 full-time workers ³							
		Total cases	Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Private industry ⁴		49.0	7.7	0.3	2.4	0.9	2.4	29.7	5.4
Agriculture, forestry, and fishing ⁴		58.9	34.5	.5	2.7	4.2	1.9	7.9	7.0
Agricultural production ⁴	01-02	66.5	32.9	.9	4.2	4.2	2.4	14.1	7.7
Agricultural services	07	49.5	33.2	-	1.6	4.3	-	2.6	6.3
Forestry	08	159.6	136.5	-	-	-	-	6.9	7.5
Fishing, hunting, and trapping	09	37.8	-	-	-	-	-	-	-
Mining ⁴		24.4	2.9	7.3	.6	1.4	1.3	8.2	2.6
Metal mining ⁴	10	25.0	2.0	1.6	^a .4	2.9	^a .6	17.1	^a .4
Coal mining ⁴	12	60.0	.4	36.8	^a .3	1.7	.8	18.6	1.4
Oil and gas extraction	13	12.5	3.0	-	.9	-	1.6	2.9	3.7
Nonmetallic minerals, except fuels ⁴	14	25.2	5.4	1.8	^a .1	4.1	1.4	11.0	1.4
Construction		17.5	5.6	.4	2.1	.9	2.6	3.1	2.8
General building contractors	15	15.0	4.3	-	2.7	-	1.2	3.9	2.5
Residential building construction	152	10.1	3.2	-	-	-	-	3.8	-
Operative builders	153	19.6	5.8	-	-	-	-	2.5	-
Nonresidential building construction	154	19.2	5.2	-	4.6	-	1.7	4.1	2.8
Heavy construction, except building	16	22.3	9.6	.6	1.8	1.3	3.8	1.3	3.9
Highway and street construction	161	18.0	6.9	-	-	1.1	5.7	-	1.8
Heavy construction, except highway	162	24.1	10.8	.6	2.3	1.3	2.9	1.3	4.8
Special trade contractors	17	17.1	5.0	.5	1.9	1.1	2.8	3.2	2.6
Plumbing, heating, air-conditioning	171	13.3	4.2	-	2.1	-	2.3	1.6	1.3
Painting and paper hanging	172	-	-	-	-	-	-	-	-
Electrical work	173	17.7	4.3	-	2.5	-	5.0	2.7	2.7
Masonry, stonework, and plastering	174	17.9	4.2	-	-	-	-	7.3	-
Carpentry and floor work	175	8.7	-	-	-	-	-	-	-
Roofing, siding, and sheet metal work	176	15.7	-	-	-	-	-	-	4.9
Concrete work	177	15.9	4.7	-	2.1	-	2.9	-	3.9
Water well drilling	178	45.6	22.0	-	-	-	9.9	-	-
Miscellaneous special trade contractors	179	22.2	7.9	-	-	2.0	4.4	2.0	2.8
Manufacturing		144.0	17.9	.5	5.0	1.9	6.8	104.6	7.2
Durable goods		143.1	19.2	.5	5.7	2.4	9.6	97.9	8.0
Lumber and wood products	24	52.4	6.2	.6	1.1	.7	1.8	38.4	3.6
Logging	241	28.5	2.1	-	1.6	4.0	-	13.2	4.8
Sawmills and planing mills	242	52.9	5.4	.6	-	.6	1.9	39.9	4.0
Millwork, plywood and structural members	243	67.9	8.0	-	1.4	.4	2.1	52.8	2.9
Wood containers	244	24.8	-	-	-	-	^a .8	16.1	-
Wood buildings and mobile homes	245	29.1	6.9	^a .2	-	-	1.0	19.2	1.8
Miscellaneous wood products	249	54.7	7.4	-	3.0	^a .1	2.1	37.1	3.7
Furniture and fixtures	25	116.6	11.2	1.0	3.4	.2	5.3	88.4	7.0
Household furniture	251	104.4	12.3	1.3	4.0	.2	6.2	74.5	5.8
Office furniture	252	170.2	7.7	-	-	-	2.2	152.1	6.0
Public building and related furniture	253	292.3	26.8	^a .7	5.9	-	14.7	227.2	17.0
Partitions and fixtures	254	54.3	5.7	-	2.8	-	2.7	36.2	7.0
Miscellaneous furniture and fixtures	259	82.5	6.6	-	1.9	^a .6	-	62.4	8.8
Stone, clay, and glass products	32	86.7	12.7	.6	4.3	1.3	3.3	57.5	6.9
Flat glass	321	292.2	17.0	^a .6	10.9	6.7	19.4	219.3	18.2
Glass and glassware, pressed or blown	322	163.4	13.3	.7	-	1.5	6.2	118.9	7.6
Products of purchased glass	323	128.1	16.2	^a .2	1.1	1.1	^a .8	99.8	9.0
Structural clay products	325	90.0	7.3	-	3.8	-	^a 1.0	73.2	3.5
Pottery and related products	326	185.9	24.7	2.3	3.7	^a .3	4.5	140.4	10.0
Concrete, gypsum, and plaster products	327	21.2	8.0	-	.9	1.6	1.4	3.0	5.7
Cut stone and stone products	328	18.0	-	-	-	-	-	-	^a 2.3
Miscellaneous nonmetallic mineral products	329	71.1	21.2	-	4.3	-	3.1	34.1	7.4
Primary metal industries	33	124.6	14.4	1.4	6.2	2.4	8.9	81.1	10.3

See footnotes at end of table.

Table 7. Occupational illness incidence rates by industry and category of illness, 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 10,000 full-time workers ³							
		Total cases	Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Blast furnace and basic steel products	331	73.2	10.5	-	4.1	1.9	12.5	32.3	9.9
Iron and steel foundries	332	183.5	16.1	1.2	5.1	4.9	11.0	131.5	13.7
Primary nonferrous metals	333	231.5	26.6	*.4	17.3	4.2	24.6	134.3	24.1
Secondary nonferrous metals	334	94.0	16.2	-	31.9	-	* 1.1	20.5	16.2
Nonferrous rolling and drawing	335	142.5	14.4	1.3	5.2	.9	1.8	114.3	4.6
Nonferrous foundries (castings)	336	141.3	18.9	1.0	5.6	2.2	-	99.0	11.1
Miscellaneous primary metal products	339	43.0	9.7	-	3.9	-	-	24.4	3.9
Fabricated metal products	34	135.5	21.1	.5	4.5	1.4	20.7	79.4	7.8
Metal cans and shipping containers	341	61.2	6.8	-	1.4	-	-	36.0	15.2
Cutlery, handtools, and hardware	342	243.3	39.5	-	5.8	.7	7.2	170.8	18.1
Plumbing and heating, except electric	343	475.5	17.9	*.2	3.4	5.6	335.1	110.5	2.8
Fabricated structural metal products	344	51.7	6.4	.7	2.3	-	10.1	25.7	6.2
Screw machine products, bolts, etc.	345	69.0	33.3	-	2.4	1.0	-	23.3	7.6
Metal forgings and stampings	346	252.3	26.7	*.2	6.5	3.6	13.0	190.8	9.6
Metal services, n.e.c.	347	91.5	25.9	-	5.6	1.2	-	49.8	-
Ordnance and accessories, n.e.c.	348	175.5	39.6	*.3	5.3	1.6	2.7	123.1	3.0
Miscellaneous fabricated metal products	349	90.1	21.7	.4	7.0	1.3	4.6	49.0	6.1
Industrial machinery and equipment	35	81.8	16.5	.2	2.9	1.0	3.6	52.0	5.6
Engines and turbines	351	197.9	38.2	-	2.4	-	5.9	148.2	3.1
Farm and garden machinery	352	153.7	21.2	-	4.2	2.0	11.2	112.6	2.4
Construction and related machinery	353	64.7	14.2	.3	2.3	.7	6.6	34.9	5.9
Metalworking machinery	354	48.6	14.9	-	2.0	-	1.0	26.3	3.0
Special industry machinery	355	48.1	13.3	-	2.8	-	3.1	19.4	7.7
General industrial machinery	356	82.9	22.0	.4	2.8	-	3.3	44.8	8.4
Computer and office equipment	357	67.5	5.6	*.1	-	.5	-	53.9	3.7
Refrigeration and service machinery	358	172.9	25.3	-	8.0	.8	8.5	122.1	8.2
Industrial machinery, n.e.c.	359	57.6	19.2	.2	-	1.3	2.9	24.9	7.8
Electronic and other electric equipment	36	139.0	15.8	.3	6.2	3.6	2.3	102.6	8.2
Electric distribution equipment	361	129.1	18.9	-	2.2	-	3.5	96.3	6.9
Electrical industrial apparatus	362	158.2	22.8	.5	6.8	-	1.6	122.1	2.8
Household appliances	363	374.9	20.6	*.4	5.5	1.2	5.3	326.3	13.7
Electric lighting and wiring equipment	364	117.4	21.7	*.1	4.2	.5	6.4	70.6	13.9
Household audio and video equipment	365	174.0	15.9	*.4	5.3	9.6	4.5	135.9	2.4
Communications equipment	366	67.4	6.5	*.1	-	*.1	.8	52.2	4.7
Electronic components and accessories	367	90.5	13.9	-	8.5	1.3	1.1	57.5	8.0
Miscellaneous electrical equipment and supplies	369	248.3	18.8	.5	8.0	23.0	1.2	182.9	13.7
Transportation equipment	37	305.3	37.9	.8	11.4	5.1	25.8	211.2	13.0
Motor vehicles and equipment	371	482.4	54.8	.6	13.4	8.0	22.5	388.4	14.7
Aircraft and parts	372	158.1	31.2	.5	8.7	4.0	2.9	97.8	12.9
Ship and boat building and repairing	373	360.2	22.9	3.3	24.8	2.7	142.0	158.2	6.2
Railroad equipment	374	295.5	40.0	-	5.2	-	79.4	130.2	40.0
Motorcycles, bicycles, and parts	375	440.1	48.7	-	5.4	*.7	25.7	340.6	19.0
Guided missiles, space vehicles, parts	376	53.7	9.2	*.1	2.7	.7	1.1	29.7	10.2
Miscellaneous transportation equipment	379	179.1	10.6	-	2.8	*.3	42.9	119.6	2.5
Instruments and related products	38	104.7	12.5	.3	4.9	2.5	.7	77.7	6.2
Search and navigation equipment	381	74.5	6.9	.2	3.9	5.0	1.0	50.5	7.0
Measuring and controlling devices	382	91.8	13.4	*.1	3.9	1.6	.5	66.7	5.6
Medical instruments and supplies	384	126.0	13.8	-	6.0	1.2	.4	95.9	8.3
Ophthalmic goods	385	329.2	42.3	-	21.9	-	-	256.9	1.5
Photographic equipment and supplies	386	77.5	8.3	-	1.3	*.1	1.0	63.6	2.6
Watches, clocks, watchcases and parts	387	83.6	15.9	-	*.1.1	*.1.1	-	61.4	*.4.2
Miscellaneous manufacturing industries	39	113.3	14.9	.2	7.2	2.2	2.4	81.2	5.3
Jewelry, silverware, and plated ware	391	70.7	8.1	-	-	-	*.4	56.3	1.7
Musical instruments	393	118.4	*.1.7	-	*.3.4	*.1.7	*.3.4	100.0	8.4
Toys and sporting goods	394	176.2	22.3	-	3.7	.7	5.6	136.9	6.8
Pens, pencils, office, and art supplies	395	156.9	14.1	-	3.2	17.6	2.6	115.4	4.2
Costume jewelry and notions	396	44.1	9.4	*.3	7.7	-	*.3	23.5	2.7
Miscellaneous manufactures	399	85.1	14.4	-	12.4	-	-	50.4	6.0
Nondurable goods		145.1	16.2	.6	4.0	1.1	3.0	114.0	6.2
Food and kindred products	20	333.5	30.8	.6	6.1	1.3	5.3	281.1	8.4
Meat products	201	994.6	77.8	.4	6.8	1.4	11.6	880.2	16.3
Dairy products	202	89.5	10.1	.6	5.1	-	5.7	62.0	5.9
Preserved fruits and vegetables	203	130.7	19.8	-	9.0	1.6	5.2	87.4	7.4

See footnotes at end of table.

Table 7. Occupational illness incidence rates by industry and category of illness, 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 10,000 full-time workers ³							
		Total cases	Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Grain mill products	204	45.6	8.4	1.7	5.8	-	1.4	24.8	2.8
Bakery products	205	88.8	5.8	.8	-	0.4	1.9	74.1	2.3
Sugar and confectionery products	206	122.4	12.4	-	1.3	2.2	1.0	99.6	5.5
Fats and oils	207	50.8	15.9	-	10.8	-	*.6	18.7	3.8
Beverages	208	62.1	12.0	*.1	4.4	.9	1.2	39.2	4.2
Miscellaneous food and kindred products	209	185.4	29.7	1.0	8.0	3.0	4.1	128.2	11.4
Tobacco products	21	13.9	2.3	-	*.6	-	2.5	7.6	*.8
Chewing and smoking tobacco	213	53.8	-	-	*3.0	-	-	50.8	-
Tobacco stemming and redrying	214	20.1	6.3	-	-	-	7.6	*2.5	*3.8
Textile mill products	22	105.1	9.3	.5	2.0	.1	2.3	81.4	9.4
Broadwoven fabric mills, cotton	221	90.0	-	-	.7	-	-	73.1	-
Broadwoven fabric mills, manmade	222	73.6	-	-	-	-	-	56.5	11.2
Broadwoven fabric mills, wool	223	74.5	9.7	*1.1	-	-	-	-	4.6
Narrow fabric mills	224	54.5	7.1	-	*1.8	-	*1.3	41.6	2.7
Knitting mills	225	175.2	12.2	-	.9	-	-	156.0	2.8
Textile finishing, except wool	226	34.3	15.7	-	3.8	*.2	-	9.8	2.3
Carpets and rugs	227	62.7	7.0	*.2	4.0	1.1	2.5	40.7	7.2
Yarn and thread mills	228	116.6	5.0	-	4.3	-	1.8	68.4	36.1
Miscellaneous textile goods	229	63.5	15.6	-	2.0	*.4	*.6	41.2	3.8
Apparel and other textile products	23	170.7	16.5	-	1.6	-	2.9	140.9	5.3
Men's and boys' suits and coats	231	197.5	11.2	-	*.2	-	5.2	179.2	1.7
Men's and boys' furnishings	232	319.6	26.5	-	2.3	.5	-	278.4	6.5
Women's and misses' outerwear	233	68.9	9.6	.2	-	-	-	54.1	-
Women's and children's undergarments	234	125.4	-	-	-	-	1.9	58.4	*.7
Hats, caps, and millinery	235	217.0	7.1	-	-	-	-	201.4	-
Girls' and children's outerwear	236	115.2	13.2	-	-	1.3	1.0	97.2	1.3
Miscellaneous apparel and accessories	238	73.0	14.2	*.3	1.3	*.8	3.9	51.8	*.8
Miscellaneous fabricated textile products	239	172.3	17.4	-	3.2	-	3.3	136.2	10.5
Paper and allied products	26	74.7	5.8	.3	4.5	.3	4.7	54.2	4.9
Pulp mills	261	94.9	-	*1.3	13.0	-	9.7	59.8	5.2
Paper mills	262	105.8	6.3	.7	8.6	.3	9.6	75.2	-
Paperboard mills	263	61.4	2.6	-	13.4	-	5.4	29.6	9.3
Paperboard containers and boxes	265	50.2	3.4	-	-	-	1.5	40.5	3.9
Miscellaneous converted paper products	267	73.3	8.3	*.1	2.5	.3	2.9	54.7	4.5
Printing and publishing	27	44.9	3.8	.1	1.6	-	.6	36.2	2.3
Newspapers	271	51.0	-	(1)	-	-	.5	44.2	-
Periodicals	272	19.2	-	.4	.8	*.1	*.3	15.6	.8
Books	273	43.8	-	-	*.1	-	-	39.2	2.4
Miscellaneous publishing	274	27.6	2.0	-	-	-	*.4	19.2	-
Commercial printing	275	43.2	6.0	-	2.1	-	.7	31.1	-
Manifold business forms	276	27.5	-	-	4.4	-	-	14.7	-
Greeting cards	277	238.9	9.9	*.4	3.2	-	-	223.8	-
Blankbooks and bookbinding	278	59.9	-	-	-	-	-	50.4	-
Printing trade services	279	-	-	-	-	-	-	-	-
Chemicals and allied products	28	67.9	19.5	1.6	4.8	1.4	2.7	31.7	6.3
Industrial inorganic chemicals	281	43.9	13.0	.8	4.8	.6	2.4	16.5	5.8
Plastics materials and synthetics	282	64.1	17.0	3.5	4.5	-	2.3	30.6	4.8
Drugs	283	93.8	27.8	1.2	-	.9	1.6	47.5	8.1
Soap, cleaners, and toilet goods	284	79.6	18.3	.9	4.0	.3	6.2	43.1	6.8
Paints and allied products	285	68.2	31.0	-	2.8	-	-	-	-
Industrial organic chemicals	286	58.9	15.1	-	5.7	2.6	2.2	25.7	5.4
Agricultural chemicals	287	32.7	9.4	.9	3.5	-	2.6	11.2	4.0
Miscellaneous chemical products	289	59.2	20.5	-	2.0	-	2.3	26.3	3.2
Petroleum and coal products	29	48.7	7.2	1.3	7.3	.9	2.5	18.7	10.8
Petroleum refining	291	51.2	6.6	1.8	4.2	1.1	1.8	22.8	13.0
Asphalt paving and roofing materials	295	27.0	10.0	-	4.2	-	2.3	6.9	3.5
Miscellaneous petroleum and coal products	299	69.3	-	-	46.8	-	10.9	*.8	*3.3
Rubber and miscellaneous plastics products	30	116.9	19.0	.6	6.7	1.2	2.3	80.5	6.7
Tires and inner tubes	301	106.4	14.6	.9	2.3	*.4	1.4	82.1	4.7
Rubber and plastics footwear	302	181.0	7.5	-	*3.8	-	*3.8	160.3	5.7
Hose and belting and gaskets and packing	305	110.0	24.2	-	6.8	-	-	73.4	1.8
Fabricated rubber products, n.e.c.	306	133.0	25.5	*.1	4.0	1.3	3.0	88.4	10.8
Miscellaneous plastics products, n.e.c.	308	115.1	18.2	-	7.8	1.2	2.4	78.2	6.8

See footnotes at end of table.

Table 7. Occupational illness incidence rates by industry and category of illness, 1991—Continued

Industry ¹	SIC code ²	Incidence rates per 10,000 full-time workers ³							
		Total cases	Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Leather and leather products _____	31	234.5	22.0	-	2.3	1.0	3.1	198.5	7.5
Leather tanning and finishing _____	311	211.1	61.2	-	-	-	14.3	128.4	3.3
Footwear cut stock _____	313	289.4	23.6	-	* 6.4	* 2.1	-	233.7	23.6
Footwear, except rubber _____	314	284.2	16.8	-	2.5	1.3	-	252.1	9.9
Luggage _____	316	353.0	9.7	-	* 4.3	-	* 2.2	329.2	5.4
Handbags and personal leather goods _____	317	52.4	* .9	-	-	-	* .9	49.7	* .9
Transportation and public utilities ⁵ _____		25.3	5.3	0.3	2.1	.6	2.1	10.3	4.5
Wholesale and retail trade _____		12.9	2.3	-	.8	.2	.6	6.2	2.7
Wholesale trade _____		15.9	2.5	-	.9	-	.6	8.0	3.3
Retail trade _____		11.7	2.2	(⁷)	.8	.2	.6	5.5	2.5
Finance, insurance, and real estate _____		14.1	1.0	-	-	-	.2	8.6	2.8
Services _____		24.5	6.0	.1	2.3	.8	1.2	6.1	7.9

¹ Totals for divisions and 2- and 3-digit SIC codes include data for industries not shown separately.

² *Standard Industrial Classification Manual*, 1987 Edition.

³ Incidence rates represent the number of new illnesses per 10,000 full-time workers and were calculated as: $(N/EH) \times 20,000,000$ where,

N = number of new illnesses,

EH = total hours worked by all employees during the calendar year, 20,000,000 = base for 10,000 equivalent full-time workers (working 40 hours per week, 50 weeks per year).

⁴ Excludes farms with fewer than 11 employees.

⁵ Data conforming to OSHA definitions for employers in the railroad

industry and for mining operators in coal, metal, and nonmetal mining were provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation and the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

* Incidence rate based on estimates of 1 to 4 cases.

⁷ Incidence rates less than 0.05.

n.e.c. = not elsewhere classified.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines. Because of rounding, components may not add to totals.

Table 8. Number of new cases of occupational illnesses by industry division and category of illness, 1991

(In thousands)

Industry division	Total illnesses	Number of illnesses by category						
		Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Private industry ¹	308.3	58.2	2.5	18.3	6.7	18.2	223.6	40.8
Agriculture, forestry, and fishing ¹	6.1	3.6	.1	.3	.4	.2	.8	.7
Mining ²	1.7	.2	.5	(³)	.1	.1	.6	.2
Construction	7.0	2.2	.2	.8	.4	1.0	1.2	1.1
Manufacturing	255.2	31.8	1.0	8.8	3.3	12.0	185.5	12.8
Transportation and public utilities ²	13.4	2.8	.2	1.1	.3	1.1	5.5	2.4
Wholesale and retail trade	25.2	4.4	-	1.6	.4	1.1	12.2	5.3
Wholesale trade	9.0	1.4	-	.5	-	.3	4.5	1.8
Retail trade	16.2	3.0	-	-	-	.8	7.6	3.4
Finance, insurance, and real estate	8.3	.8	(³)	.7	.1	.1	5.1	1.7
Services	51.3	12.6	.3	4.8	1.7	2.5	12.7	16.6

¹ Excludes farms with fewer than 11 employees.

and nonmetal mining industries.

² Data conforming to OSHA definitions for employers in the railroad industry and for mining operators in coal, metal, and nonmetal mining were provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation and the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal,

³ Fewer than 50 cases.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines. Because of rounding, components may not add to totals.

Table 2. Employment and occupational injury and illness fatalities ¹ for employers with 11 employees or more by industry division, 1990 and 1991

Industry division	Annual average employment ²				Fatalities ²			
	1990		1991		1990		1991	
	Number (thousands)	Percent	Number (thousands)	Percent	Number	Percent	Number	Percent
Private industry ³	79,647	100	79,062	100	2,900	100	2,800	100
Agriculture, forestry, and fishing	979	1	1,048	1	200	5	-	-
Mining ³	624	1	606	1	-	-	100	5
Construction	3,794	5	3,412	4	700	25	500	16
Manufacturing	18,419	23	17,777	23	500	18	600	22
Transportation and public utilities ³	5,362	7	5,324	7	500	18	400	15
Wholesale and retail trade	21,621	27	21,012	27	500	16	400	14
Finance, insurance, and real estate	5,763	7	5,659	7	-	-	-	-
Services	23,087	29	23,224	30	300	9	600	21

¹ Work-related fatalities cannot be measured accurately through a sample survey of this size (250,000 establishments) because of their relatively rare occurrence. The Bureau believes the Annual Survey significantly understates job-related deaths for the year.

To provide more complete data on this basic element of workplace safety, BLS has developed the Census of Fatal Occupational Injuries, which provides a systematic and verifiable count of fatally injured public and private sector workers. This program uses administrative records, such as death certificates, workers' compensation fatality claims, medical examiners' records, and other reports to Federal and State agencies, to identify the workplace fatalities and compile descriptive data on the workers and the circumstances of their deaths.

² Employment data are derived primarily from the BLS-State Current

Employment Statistics program. Employment and fatality estimates have been adjusted to exclude establishments with fewer than 11 employees as obtained from the Annual Survey of Occupational Injuries and Illnesses.

³ Data conforming to OSHA definitions for employers in the railroad industry and for mining operators in coal, metal, and nonmetal mining were provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation and the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines. Because of rounding, components may not add to totals.

Table 10. Distribution of fatalities¹ by associated object or event: Occupational injury and illness fatalities for employers with 11 employees or more, 1990-91 average²

(in percent)

Associated object or event	Total private industry ³	Agriculture, forestry, and fishing	Mining, oil and gas extraction only	Construction	Manufacturing	Transportation and public utilities ⁴	Wholesale and retail trade	Finance, insurance, and real estate	Services
Total	100	-	100	100	100	100	100	-	100
Highway vehicles	27	-	20	16	15	50	28	-	37
Industrial vehicles or equipment	12	-	29	17	10	4	6	-	13
Falls	10	-	12	21	13	5	5	-	8
Heart attacks	9	-	(⁵)	11	8	11	9	-	8
Assaults	9	-	(⁵)	(⁵)	1	3	35	-	15
Electrocutions	7	-	8	13	7	6	4	-	5
Struck by objects other than vehicles or equipment	6	-	4	6	14	5	3	-	1
Plant machinery operations	4	-	1	1	12	1	2	-	1
Explosions	3	-	5	3	6	5	(⁵)	-	(⁵)
Aircraft crasher	3	-	(⁵)	(⁵)	1	7	2	-	4
Gas inhalation	2	-	4	(⁵)	6	1	3	-	1
All other ⁶	9	-	16	10	8	2	3	-	6

¹ Work-related fatalities cannot be measured accurately through a sample survey of this size (250,000 establishments) because of their relatively rare occurrence. The Bureau believes the Annual Survey significantly understates job-related deaths for the year.

To provide more complete data on this basic element of workplace safety, BLS has developed the Census of Fatal Occupational Injuries, which provides a systematic and verifiable count of fatally injured public and private sector workers. This program uses administrative records, such as death certificates, workers' compensation fatality claims, medical examiners' records, and other reports to Federal and State agencies, to identify the workplace fatalities and compile descriptive data on the workers and the circumstances of their deaths.

² Results are the average of the 2 years because sampling errors for data by cause of fatality are too large to provide reliable annual estimates at the industry division level.

³ Excludes coal, metal, and nonmetal mining and railroads, for which data are not available.

⁴ Excludes railroads for which data are not available.

⁵ Less than 0.5 percent.

⁶ The 'All other' category includes, for example: contact with carcinogenic or toxic substances; drowning; fires; train accidents; caught in, under, or between objects other than vehicles or equipment; and various occupational illnesses.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines. Because of rounding, components may not add to totals.

Table 11. Distribution of fatalities¹ by industry division: Occupational injury and illness fatalities for employers with 11 employees or more, 1990-91 average²

(In percent)

Associated object or event	Total private industry ³	Agriculture, forestry, and fishing	Mining, oil and gas extraction only	Construction	Manufacturing	Transportation and public utilities ⁴	Wholesale and retail trade	Finance, insurance, and real estate	Services
Total	100	-	2	21	22	16	15	-	14
Highway vehicles	100	-	2	12	12	31	16	-	20
Industrial vehicles or equipment	100	-	5	31	19	6	8	-	16
Falls	100	-	2	41	27	8	7	-	11
Heart attacks	100	-	(⁵)	25	20	20	15	-	13
Assaults	100	-	(⁵)	1	3	6	62	-	26
Electrocutions	100	-	2	39	21	15	8	-	11
Struck by objects other than vehicles or equipment	100	-	1	21	51	13	6	-	2
Plant machinery operations	100	-	1	4	73	4	9	-	5
Explosions	100	-	4	22	42	28	2	-	1
Aircraft crashes	100	-	(⁵)	3	11	44	11	-	21
Gas inhalation	100	-	4	4	59	4	20	-	6
All other ⁶	100	-	4	24	18	4	4	-	10

¹ Work-related fatalities cannot be measured accurately through a sample survey of this size (250,000 establishments) because of their relatively rare occurrence. The Bureau believes the Annual Survey significantly understates job-related deaths for the year.

To provide more complete data on this basic element of workplace safety, BLS has developed the Census of Fatal Occupational Injuries, which provides a systematic and verifiable count of fatally injured public and private sector workers. This program uses administrative records, such as death certificates, workers' compensation fatality claims, medical examiners' records, and other reports to Federal and State agencies, to identify the workplace fatalities and compile descriptive data on the workers and the circumstances of their deaths.

² Results are the average of the 2 years because sampling errors for data by cause of fatality are too large to provide reliable annual estimates at the industry division level.

³ Excludes coal, metal, and nonmetal mining and railroads, for which data are not available.

⁴ Excludes railroads for which data are not available.

⁵ Less than 0.5 percent.

⁶ The 'All other' category includes, for example: contact with carcinogenic or toxic substances; drowning; fires; train accidents; caught in, under, or between objects other than vehicles or equipment; and various occupational illnesses.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines. Because of rounding, components may not add to totals.

Appendix A. Scope and Method of Survey

Scope

The occupational injury and illness data reported through the annual survey are based on records which employers maintain under the Occupational Safety and Health Act of 1970. The data published in this bulletin reflect the occupational injury and illness experience of employers in the 50 States plus the District of Columbia; data for the U.S. territories are not included.

The survey includes the following industries: Agriculture, forestry, and fishing, SIC 01-09; oil and gas extraction, SIC 13; sulphur mining, part of SIC 14; construction, SIC 15-17; manufacturing, SIC 20-39; transportation and public utilities, SIC 41-42 and 44-49; wholesale and retail trade, SIC 50-59; finance, insurance, and real estate, SIC 60-67; and services, SIC 70-87 and 89. Excluded from the survey are self-employed individuals; farms with fewer than 11 employees; employers regulated by other Federal safety and health laws; and Federal, State, and local government agencies.

Data conforming to definitions of recordable occupational injuries and illnesses for coal, metal, and nonmetal mining, and railroad transportation are provided by the Mine Safety and Health Administration, Department of Labor; and the Federal Railroad Administration, Department of Transportation.

The Occupational Safety and Health Administration is responsible for the collection and compilation of comparable data for Federal agencies. Although State and local government agencies are not surveyed for national estimates, several States have legislation which enables them to collect data for this sector.

The 1991 survey sample was composed of approximately 250,000 sample units. Original and followup mailings resulted in a response rate of 94 percent.

Sample

Because the survey is a Federal-State cooperative program and the data must meet the needs of participating State agencies, an independent sample is selected for each State. The sample is selected to represent all private industries in the States and territories. The sample size for the survey is dependent upon (1) the characteristics for which estimates are needed, (2) the industries for which estimates are desired, (3) the characteristics of the

population being sampled, (4) the target reliability of the estimates, and (5) the survey design employed.

While there are many characteristics upon which the sample design could be based, the total case incidence rate is used because it is one of the most important characteristics and the least variable; therefore, it requires the smallest sample size.

The salient features of the sample design employed are its use of stratified random sampling with a Neyman allocation and a ratio estimator. The characteristics used to stratify the establishments are the Standard Industrial Classification code and employment. Since these characteristics are highly correlated with an establishment's number and rate of reported injuries and illnesses, stratified sampling provides greater precision and, thus, results in a smaller sample size than simple random sampling. The Neyman allocation produces the minimum sample size which will provide an estimate with a given sampling variance. For the larger employment size classes, the allocation procedure places all of the establishments of the frame in the sample; as employment decreases, smaller and smaller proportions of establishments are included in the sample. The certainty strata are usually the size groups with more than 100 employees. The precision of the sample is further improved, hence permitting a reduction in sample size, by using the ratio estimator, which in turn uses employment data that are correlated with the characteristics which are to be measured.

The sample is designed to produce data at the 2-digit SIC industry level in agriculture, forestry, and fishing; the 3-digit level in oil and gas extraction; construction; transportation and public utilities; wholesale and retail trade; finance, insurance, and real estate; and services; and the 4-digit level in manufacturing.

Estimating procedures

Weighting. By means of a weighting procedure, sample units are made to represent all units in their size class for a particular industry. The weight is determined by the inverse of the sampling ratio for the industry/employment-size class from which the unit was selected. Because a small proportion of survey forms are not returned, weights of responding employers in a sampling cell are adjusted to account for the nonrespondents. The respondents are then shifted into the estimating cell

determined by the employment and business activity reported. Data for each unit are multiplied by the appropriate weight and nonresponse adjustment factor. The products are then aggregated to obtain a total for the estimating cell.

Benchmarking. Since the universe file which provides the sample frame is not current to the reference year of the survey, it is necessary to adjust the data to reflect current employment levels. In the annual survey, all estimates of totals are adjusted by the benchmark factor at the estimating cell level. The benchmarking procedure requires a source of accurate employment data which can be converted into annual average employment figures for the cell level in which separate estimates are desired. Because industry/employment size data are required for national estimates, benchmark factors are calculated using both industry level employment data and size class level employment data. The benchmark factors are applied to the size class "blow up" estimates.

Federal-State cooperation

To eliminate duplicate reporting by respondents and to insure maximum comparability of estimates, survey respondents complete a single reporting form which is then used for national and State estimates.

Industrial classification

Reporting units are classified into industries by their principal product or activity. The data are tabulated according to the 1987 edition of the *Standard Industrial Classification Manual*.

Reliability of estimates

The annual survey estimates of occupational injuries and illnesses are based on a scientifically selected probability sample, rather than a census of the entire population. These sample-based estimates may differ from the results obtained from a census of the population. The sample used was one of many possible samples, each of which could have produced different estimates. The variation in the sample estimates across all possible samples that could have been drawn is measured by the relative standard error. The relative standard error is used to calculate a "confidence interval" around a sample estimate. These relative standard errors are calculated as part of the survey's estimation process and are given in tables A-1 through A-4.

The 95-percent confidence interval is the interval centered at the sample estimate and includes all values within 2 times the estimate's relative standard error. If several different samples were selected to estimate the population value (e.g., injury and illness incidence rates), the 95-percent confidence interval would include the true population value approximately 95 percent of the time.

For example, the total case incidence rate of 8.9 for health services (SIC 80) in 1991 (table 1) had an estimated relative standard error of 2.1 percent. Hence, we are 95 percent confident that the interval between 5.2 and 12.6 (or $8.9 \pm (2 \times 8.9 \times 0.021)$) includes the true rate for total cases for health services.

The data are also subject to nonsampling error. The inability to obtain information about all cases in the sample, mistakes in recording or coding the data, and definitional difficulties are examples of nonsampling error in the annual survey. To minimize the nonsampling errors in the estimates, the completed forms are edited and apparent inconsistencies are checked.

Publication guidelines

The estimating procedure generates occupational injury and illness estimates for approximately 900 SIC codes. This publication, however, excludes estimates for several industry codes if one of the following situations occurred:

1. Estimates for the industry were based on reports from fewer than three companies. Moreover, if three or more companies reported data for the industry, one firm could employ not more than 50 percent of the workers or two companies combined could employ not more than 75 percent.
2. Annual average employment for the industry in 1991 was fewer than 10,000. However, data for an industry with an annual average employment of fewer than 10,000 were published if the majority of the employment was reported in the survey.
3. The relative standard error on total cases for the industry at 1 standard error was more than 20 percent.
4. The benchmark factor for the industry was less than 0.90 or greater than 1.49.

Data for an unpublished industry were included in the total for the broader industry level of which it is a part. Also, selected items of data were suppressed for publishable industries if the sampling error for the estimate equaled or exceeded 60 percent.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Private industry		(¹)	1	1	1	(¹)	1	1	1
Agriculture, forestry, and fishing		2	2	3	4	2	2	3	4
Agricultural production	01-02	3	3	3	5	3	3	3	5
Agricultural services	07	3	4	5	6	3	4	5	6
Forestry	08	6	7	7	11	6	7	8	11
Fishing, hunting, and trapping	09	18	23	19	34	18	23	19	38
Mining		2	2	3	3	2	2	3	3
Oil and gas extraction	13	4	5	5	6	4	5	6	6
Crude petroleum and natural gas	131	10	13	11	19	10	13	12	20
Oil and gas field services	138	5	6	6	6	5	6	6	6
Construction		1	1	1	2	1	1	1	2
General building contractors	15	2	3	3	4	2	3	3	4
Residential building construction	152	4	4	5	7	4	4	5	7
Operative builders	153	10	12	10	21	10	12	11	21
Nonresidential building construction	154	3	4	4	6	3	4	4	6
Heavy construction, except building	16	2	2	2	3	2	2	3	3
Highway and street construction	161	3	3	3	4	3	3	3	4
Heavy construction, except highway	162	3	3	3	5	3	3	3	5
Special trade contractors	17	1	1	2	2	1	1	2	2
Plumbing, heating, air-conditioning	171	3	3	3	6	3	3	3	6
Painting and paper hanging	172	5	6	7	11	5	6	7	11
Electrical work	173	3	4	4	6	3	4	4	6
Masonry, stonework, and plastering	174	3	4	4	7	3	4	4	7
Carpentry and floor work	175	5	6	7	10	5	6	7	10
Roofing, siding, and sheet metal work	176	3	4	4	6	3	4	4	7
Concrete work	177	5	5	6	8	5	5	7	8
Water well drilling	178	8	10	11	14	8	10	11	14
Miscellaneous special trade contractors	179	3	4	4	6	3	4	4	6
Manufacturing		(¹)	1	1	1	(¹)	1	1	1
Durable goods		(¹)	1	1	1	(¹)	1	1	1
Lumber and wood products	24	1	2	2	2	1	2	2	2
Logging	241	5	5	7	7	5	5	7	7
Sawmills and planing mills	242	2	3	3	4	2	3	3	4
Sawmills and planing mills, general	2421	3	3	3	5	3	3	3	5
Hardwood dimension and flooring mills	2426	5	6	6	8	5	6	6	8
Special product sawmills, n.e.c.	2429	13	17	16	23	13	18	16	25
Millwork, plywood and structural members	243	2	3	3	4	2	3	3	4
Millwork	2431	4	5	5	6	4	5	5	6
Wood kitchen cabinets	2434	5	7	7	12	5	7	7	12
Hardwood veneer and plywood	2435	7	8	9	14	7	8	9	12
Softwood veneer and plywood	2436	7	12	8	8	8	12	8	8
Structural wood members, n.e.c.	2439	6	7	8	12	6	7	8	12
Wood containers	244	4	5	6	8	4	5	6	8
Nailed wood boxes and shooks	2441	12	14	16	16	12	14	16	17
Wood pallets and skids	2448	5	6	7	9	5	6	7	9
Wood containers, n.e.c.	2449	10	12	11	11	10	12	11	11
Wood buildings and mobile homes	245	3	4	4	6	3	4	4	6
Mobile homes	2451	3	4	4	5	3	4	4	5
Prefabricated wood buildings	2452	7	9	8	13	7	9	8	13
Miscellaneous wood products	249	4	5	5	9	4	5	5	10

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Wood preserving	2491	6	8	9	10	6	8	9	10
Reconstituted wood products	2493	9	10	10	10	9	10	10	10
Wood products, n.e.c.	2499	5	7	7	14	6	7	7	15
Furniture and fixtures	25	2	2	2	3	2	2	3	3
Household furniture	251	3	4	4	5	3	4	4	5
Wood household furniture	2511	5	7	6	9	5	7	6	8
Upholstered household furniture	2512	6	7	7	10	6	7	8	12
Metal household furniture	2514	6	7	8	10	6	8	8	11
Mattresses and bedsprings	2515	5	6	8	10	5	6	8	10
Wood tv and radio cabinets	2517	6	5	12	6	6	5	12	7
Household furniture, n.e.c.	2519	6	5	8	5	7	6	10	6
Office furniture	252	4	5	6	7	4	6	6	8
Wood office furniture	2521	6	8	8	10	7	9	9	12
Office furniture, except wood	2522	5	6	7	9	6	7	8	10
Public building and related furniture	253	4	5	6	8	4	5	6	9
Partitions and fixtures	254	4	5	5	6	4	5	5	6
Wood partitions and fixtures	2541	6	7	8	10	7	8	8	10
Partitions and fixtures, except wood	2542	4	5	5	5	4	5	5	5
Miscellaneous furniture and fixtures	259	6	7	7	9	6	7	8	10
Drapery hardware and blinds and shades	2591	9	9	11	11	9	8	12	11
Furniture and fixtures, n.e.c.	2599	8	11	10	15	8	12	10	16
Stone, clay, and glass products	32	2	2	2	3	2	2	2	3
Flat glass	321	8	10	9	10	9	11	11	11
Glass and glassware, pressed or blown	322	6	5	10	6	5	5	8	6
Glass containers	3221	5	6	7	8	5	6	7	7
Pressed and blown glass, n.e.c.	3229	11	8	16	10	9	9	13	10
Products of purchased glass	323	5	7	6	10	5	7	7	11
Structural clay products	325	3	5	4	6	3	5	4	6
Brick and structural clay tile	3251	6	10	6	10	6	10	6	10
Ceramic wall and floor tile	3253	4	5	5	8	4	6	5	8
Clay refractories	3255	7	9	9	17	7	9	10	17
Structural clay products, n.e.c.	3259	14	16	15	21	15	16	15	22
Pottery and related products	326	5	5	6	8	5	5	7	7
Vitreous plumbing fixtures	3261	8	8	9	14	8	9	9	13
Porcelain electrical supplies	3264	7	8	9	10	8	8	10	9
Pottery products, n.e.c.	3269	9	12	14	11	9	10	14	12
Concrete, gypsum, and plaster products	327	3	3	3	5	3	3	3	5
Concrete block and brick	3271	9	8	12	14	9	8	12	14
Concrete products, n.e.c.	3272	4	5	5	8	4	5	5	8
Ready-mixed concrete	3273	4	5	5	7	4	5	6	7
Gypsum products	3275	7	10	8	15	7	10	8	16
Cut stone and stone products	328	9	10	12	19	9	10	11	19
Miscellaneous nonmetallic mineral products	329	4	5	5	7	4	5	5	8
Abrasive products	3291	5	6	8	14	5	6	8	13
Mineral wool	3296	6	9	9	14	6	9	9	15
Nonclay refractories	3297	9	11	12	17	10	11	13	18
Nonmetallic mineral products, n.e.c.	3299	10	12	14	35	10	12	14	32
Primary metal industries	33	1	2	2	2	1	2	2	2
Blast furnace and basic steel products	331	2	4	3	4	2	4	3	4
Blast furnaces and steel mills	3312	3	5	3	5	3	5	4	5
Steel wire and related products	3315	5	7	8	11	5	7	8	11

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Cold finishing of steel shapes	3316	4	5	5	7	4	5	6	7
Steel pipe and tubes	3317	8	9	11	9	8	9	12	9
Iron and steel foundries	332	3	3	4	4	3	3	4	4
Gray and ductile iron foundries	3321	4	4	5	5	4	4	5	5
Malleable iron foundries	3322	9	9	13	12	10	9	14	12
Steel foundries, n.e.c.	3325	5	5	6	5	5	5	6	5
Primary nonferrous metals	333	4	8	5	6	5	8	5	6
Primary copper	3331	(7)	1	(7)	1	(7)	1	(7)	1
Primary aluminum	3334	6	13	6	10	6	13	7	10
Primary nonferrous metals, n.e.c.	3339	6	7	8	6	6	8	8	6
Secondary nonferrous metals	334	6	7	7	8	6	7	7	8
Nonferrous rolling and drawing	335	2	3	3	3	2	3	3	3
Copper rolling and drawing	3351	5	6	6	7	5	6	6	7
Aluminum sheet, plate, and foil	3353	5	9	4	9	5	9	5	9
Aluminum extruded products	3354	7	8	9	9	7	8	9	10
Nonferrous wiredrawing and insulating	3357	3	4	4	5	4	5	5	5
Nonferrous foundries (castings)	336	3	3	3	4	3	3	3	4
Aluminum die-castings	3363	5	6	5	6	4	6	6	6
Nonferrous die-casting except aluminum	3364	6	8	9	9	7	8	10	10
Aluminum foundries	3365	5	6	6	9	5	6	6	9
Copper foundries	3366	7	8	9	9	7	8	9	9
Nonferrous foundries, n.e.c.	3369	11	10	13	8	9	9	10	9
Miscellaneous primary metal products	339	6	7	7	8	6	7	7	8
Metal heat treating	3398	9	10	10	11	9	10	10	11
Primary metal products, n.e.c.	3399	6	8	8	11	6	8	8	11
Fabricated metal products	34	1	1	1	2	1	1	1	2
Metal cans and shipping containers	341	5	6	7	8	6	6	7	9
Metal cans	3411	7	8	8	11	7	8	8	12
Metal barrels, drums, and pails	3412	7	9	8	12	7	9	9	12
Cutlery, handtools, and hardware	342	4	4	5	5	4	4	6	6
Cutlery	3421	16	7	27	6	18	8	29	9
Hand and edge tools, n.e.c.	3423	11	10	14	15	11	10	14	18
Saw blades and handsaws	3425	12	11	15	14	11	10	15	13
Hardware, n.e.c.	3429	3	5	4	6	4	5	5	6
Plumbing and heating, except electric	343	4	7	4	7	5	7	5	7
Metal sanitary ware	3431	5	14	4	9	8	14	7	9
Plumbing fixture fittings and trim	3432	6	7	8	14	6	7	8	17
Heating equipment, except electric	3433	9	10	11	12	9	10	12	13
Fabricated structural metal products	344	2	2	2	3	2	2	2	3
Fabricated structural metal	3441	3	4	4	6	3	4	4	6
Metal doors, sash, and trim	3442	4	6	5	8	4	6	5	9
Fabricated plate work (boiler shops)	3443	4	4	5	5	4	4	5	5
Sheet metalwork	3444	3	4	4	6	3	4	4	6
Architectural metal work	3446	6	8	8	11	6	8	8	11
Prefabricated metal buildings	3448	7	7	10	12	7	7	10	12
Miscellaneous metal work	3449	4	6	5	7	4	6	5	7
Screw machine products, bolts, etc.	345	4	5	5	8	5	6	5	8
Screw machine products	3451	5	6	6	10	5	6	6	10
Bolts, nuts, rivets, and washers	3452	7	8	8	11	7	8	8	11
Metal forgings and stampings	346	2	4	3	4	2	4	3	4
Iron and steel forgings	3462	4	4	6	7	4	4	5	7
Nonferrous forgings	3463	7	12	4	6	8	12	5	6
Automotive stampings	3465	4	7	4	7	4	7	4	6
Crowns and closures	3466	8	11	8	12	8	11	8	12
Metal stampings, n.e.c.	3469	3	5	4	6	4	5	4	6

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Metal services, n.e.c.	347	4	5	6	9	4	5	6	9
Plating and polishing	3471	6	8	8	13	6	8	8	13
Metal coating and allied services	3479	6	8	7	13	6	8	8	11
Ordnance and accessories, n.e.c.	348	4	5	4	6	4	6	4	7
Ammunition, except for small arms, n.e.c.	3483	6	8	4	9	6	9	4	11
Small arms	3484	6	7	7	11	6	7	8	11
Miscellaneous fabricated metal products	349	2	3	3	4	2	3	3	4
Industrial valves	3491	6	8	6	9	6	8	7	9
Fluid power valves and hose fittings	3492	7	10	8	14	7	10	8	15
Steel springs, except wire	3493	9	11	15	18	9	11	16	18
Valves and pipe fittings, n.e.c.	3494	5	7	6	7	5	7	6	8
Wire springs	3495	8	13	9	14	8	14	9	15
Miscellaneous fabricated wire products	3496	5	5	6	9	5	5	6	10
Metal foil and leaf	3497	14	15	15	31	15	15	15	31
Fabricated pipe and fittings	3498	6	8	8	11	6	7	8	11
Fabricated metal products, n.e.c.	3499	6	9	7	9	6	9	7	10
Industrial machinery and equipment	35	1	1	1	2	1	1	1	2
Engines and turbines	351	4	5	5	6	4	5	5	6
Turbines and turbine generator sets	3511	9	10	10	15	9	10	11	12
Internal combustion engines, n.e.c.	3519	5	6	5	6	5	6	5	7
Farm and garden machinery	352	4	5	5	9	4	6	5	10
Farm machinery and equipment	3523	5	7	6	11	5	7	6	12
Lawn and garden equipment	3524	5	7	5	9	5	7	5	10
Construction and related machinery	353	2	3	3	5	3	4	3	5
Construction machinery	3531	5	8	5	6	5	8	5	7
Mining machinery	3532	5	6	5	23	5	6	5	23
Oil and gas field machinery	3533	7	8	9	13	7	9	9	14
Elevators and moving stairways	3534	10	11	12	12	10	11	13	12
Conveyors and conveying equipment	3535	5	7	6	13	5	7	5	13
Hoists, cranes, and monorails	3536	7	8	9	14	7	8	9	14
Industrial trucks and tractors	3537	5	6	7	11	5	6	7	6
Metalworking machinery	354	2	3	3	5	2	3	3	5
Machine tools, metal cutting types	3541	5	7	7	17	5	7	7	18
Machine tools, metal forming types	3542	5	8	7	14	6	8	7	15
Special dies, tools, jigs and fixtures	3544	4	6	5	9	4	7	5	10
Machine tool accessories	3545	6	8	6	11	6	9	6	12
Power-driven handtools	3546	6	8	6	11	6	8	7	11
Rolling mill machinery	3547	7	14	9	19	7	14	10	20
Welding apparatus	3548	8	9	9	15	7	8	9	11
Metalworking machinery, n.e.c.	3549	9	13	10	16	9	13	11	16
Special industry machinery	355	3	5	4	7	3	5	4	7
Textile machinery	3552	11	14	12	17	10	14	12	17
Woodworking machinery	3553	7	7	8	13	7	7	8	13
Paper industries machinery	3554	7	10	9	13	8	10	9	15
Printing trades machinery	3555	9	10	11	14	9	11	11	14
Food products machinery	3556	7	13	8	18	7	13	8	19
Special industry machinery, n.e.c.	3559	7	8	8	12	7	8	8	12
General industrial machinery	356	2	3	3	5	2	3	3	5
Pumps and pumping equipment	3561	6	7	8	9	6	7	8	9
Ball and roller bearings	3562	6	8	7	10	7	9	8	11
Air and gas compressors	3563	8	17	7	12	8	18	7	13
Blowers and fans	3564	7	9	8	17	7	10	8	18
Packaging machinery	3565	5	7	6	9	5	7	6	9
Speed changers, drives, and gears	3566	6	8	8	15	6	9	9	15
Industrial furnaces and ovens	3567	7	8	8	12	7	9	8	13
Power transmission equipment, n.e.c.	3568	9	9	10	11	9	9	11	11
General industrial machinery, n.e.c.	3569	6	8	7	12	7	9	7	13

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Computer and office equipment	357	6	7	7	8	6	8	7	9
Electronic computers	3571	8	13	7	10	10	16	8	11
Computer storage devices	3572	12	19	8	32	10	16	10	29
Computer peripheral equipment, n.e.c.	3577	15	14	19	17	13	14	18	20
Refrigeration and service machinery	358	4	5	4	6	4	5	4	6
Automatic vending machines	3581	9	12	11	13	9	13	11	14
Commercial laundry equipment	3582	7	7	7	9	6	6	7	4
Refrigeration and heating equipment	3585	5	7	5	8	5	7	6	8
Measuring and dispensing pumps	3586	6	8	6	23	7	8	7	19
Service industry machinery, n.e.c.	3589	6	8	7	10	6	8	8	11
Industrial machinery, n.e.c.	359	3	4	4	6	3	4	4	6
Carburetors, pistons, rings, valves	3592	9	9	11	9	10	9	13	9
Fluid power cylinders and actuators	3593	9	9	13	14	9	9	13	15
Fluid power pumps and motors	3594	11	10	15	18	10	9	14	16
Scales and balances, except laboratory	3596	8	9	11	5	8	10	12	6
Industrial machinery, n.e.c.	3599	4	5	4	8	4	5	4	8
Electronic and other electric equipment	36	1	2	2	2	1	2	2	3
Electric distribution equipment	361	5	5	6	8	5	5	7	9
Transformers, except electronic	3612	7	8	10	12	7	8	10	12
Switchgear and switchboard apparatus	3613	6	6	8	11	7	7	8	11
Electrical industrial apparatus	362	4	5	5	5	4	5	6	6
Motors and generators	3621	6	7	7	8	6	7	7	10
Carbon and graphite products	3624	8	8	12	10	7	8	10	10
Relays and industrial controls	3625	8	10	10	9	9	11	12	11
Electrical industrial apparatus, n.e.c.	3629	11	15	13	16	11	15	13	15
Household appliances	363	2	3	3	4	3	4	3	5
Household cooking equipment	3631	8	6	13	12	9	6	14	12
Household refrigerators and freezers	3632	2	1	2	3	2	2	3	5
Household laundry equipment	3633	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)	(¹)
Electric housewares and fans	3634	8	8	9	9	7	8	9	9
Household vacuum cleaners	3635	8	15	9	17	11	21	11	27
Household appliances, n.e.c.	3639	8	12	5	6	7	12	5	6
Electric lighting and wiring equipment	364	3	4	4	5	3	4	4	5
Electric lamps	3641	7	9	7	24	8	10	8	30
Current-carrying wiring devices	3643	7	7	9	8	7	7	10	9
Noncurrent-carrying wiring devices	3644	6	8	8	10	7	9	8	10
Residential lighting fixtures	3645	7	10	9	13	7	10	10	14
Commercial lighting fixtures	3646	7	9	12	11	8	10	12	13
Vehicular lighting equipment	3647	7	8	9	11	5	9	5	11
Lighting equipment, n.e.c.	3648	12	18	14	16	12	19	12	17
Household audio and video equipment	365	5	7	6	8	5	8	6	9
Household audio and video equipment	3651	5	8	8	10	5	8	5	11
Prerecorded records and tapes	3652	12	17	15	11	14	18	19	13
Communications equipment	366	5	5	6	6	5	6	6	7
Telephone and telegraph apparatus	3661	9	9	12	11	9	9	13	11
Radio and tv communications equipment	3663	6	8	7	8	6	8	8	9
Communications equipment, n.e.c.	3669	9	10	11	12	10	11	11	16
Electronic components and accessories	367	3	3	4	6	3	4	4	7
Electron tubes	3671	2	2	6	4	2	3	7	5
Printed circuit boards	3672	7	9	9	10	7	8	9	10
Semiconductors and related devices	3674	5	7	7	15	6	7	8	17
Electronic capacitors	3675	14	22	12	14	13	23	11	16
Electronic coils and transformers	3677	9	10	11	14	10	11	11	17
Electronic connectors	3678	9	12	14	16	9	12	13	18
Electronic components, n.e.c.	3679	6	7	8	10	6	7	9	11
Miscellaneous electrical equipment and supplies	369	5	5	7	5	4	4	5	5

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Storage batteries	3691	5	5	5	7	5	6	5	9
Primary batteries, dry and wet	3692	10	12	10	14	8	11	9	13
Engine electrical equipment	3694	10	8	13	11	8	8	10	11
Magnetic and optical recording media	3695	7	7	8	10	8	8	9	9
Electrical equipment and supplies, n.e.c.	3699	11	15	11	13	10	13	11	10
Transportation equipment	37	1	1	1	1	1	1	1	2
Motor vehicles and equipment	371	1	2	2	2	2	2	2	3
Motor vehicles and car bodies	3711	2	3	1	3	2	2	2	3
Truck and bus bodies	3713	6	8	7	9	6	8	7	10
Motor vehicle parts and accessories	3714	3	4	3	4	3	4	3	5
Truck trailers	3715	8	10	8	9	8	11	8	9
Motor homes	3716	6	11	12	14	6	11	12	14
Aircraft and parts	372	2	3	3	3	2	3	3	4
Aircraft	3721	2	3	2	4	3	3	3	4
Aircraft engines and engine parts	3724	6	10	7	13	6	10	8	15
Aircraft parts and equipment, n.e.c.	3728	5	5	6	6	5	5	6	6
Ship and boat building and repairing	373	1	1	1	2	1	1	1	2
Ship building and repairing	3731	1	1	1	2	1	1	1	2
Boat building and repairing	3732	5	6	5	7	5	6	6	8
Railroad equipment	374	6	7	7	6	6	7	8	6
Motorcycles, bicycles, and parts	375	5	9	5	7	7	11	7	9
Guided missiles, space vehicles, parts	376	4	5	4	4	4	5	4	4
Guided missiles and space vehicles	3761	4	6	5	4	5	6	5	5
Space propulsion units and parts	3764	8	10	7	8	8	9	7	7
Space vehicle equipment, n.e.c.	3769	12	19	11	19	12	18	12	20
Miscellaneous transportation equipment	379	3	4	4	7	4	5	4	7
Travel trailers and campers	3792	5	8	6	15	6	8	6	12
Instruments and related products	38	3	3	3	4	3	3	3	4
Search and navigation equipment	381	6	8	7	6	6	8	7	6
Measuring and controlling devices	382	4	5	5	7	5	5	6	8
Laboratory apparatus and furniture	3821	11	15	13	22	11	15	13	23
Environmental controls	3822	10	11	14	15	11	12	17	17
Process control instruments	3823	10	9	12	14	11	10	13	17
Fluid meters and counting devices	3824	12	13	13	12	13	15	14	12
Instruments to measure electricity	3825	8	8	11	16	10	10	13	22
Measuring and controlling devices, n.e.c.	3829	13	15	13	19	13	16	13	21
Medical instruments and supplies	384	5	6	6	8	5	6	7	9
Surgical and medical instruments	3841	12	11	16	17	12	11	17	19
Surgical appliances and supplies	3842	6	9	7	11	7	9	8	11
Dental equipment and supplies	3843	13	18	12	15	14	18	14	17
Electromedical equipment	3845	10	11	14	15	10	10	15	17
Ophthalmic goods	385	8	10	12	15	8	12	12	24
Photographic equipment and supplies	386	8	9	8	7	7	10	8	8
Watches, clocks, watchcases and parts	387	11	9	12	12	12	10	14	5
Miscellaneous manufacturing industries	39	2	3	3	3	2	3	3	4
Jewelry, silverware, and plated ware	391	12	13	12	11	13	15	13	13
Jewelry, precious metal	3911	18	21	18	14	19	23	19	16
Silverware and plated ware	3914	11	12	12	17	13	14	14	22
Musical instruments	393	8	10	8	15	8	11	9	15

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Toys and sporting goods	394	4	5	5	6	4	5	5	6
Games, toys, and children's vehicles	3944	7	7	9	7	7	7	9	9
Sporting and athletic goods, n.e.c.	3949	5	6	7	8	6	6	7	8
Pens, pencils, office, and art supplies	395	5	6	6	7	6	7	7	10
Pens and mechanical pencils	3951	11	8	14	17	15	10	20	22
Lead pencils and art goods	3952	4	5	6	11	4	5	7	13
Carbon paper and inked ribbons	3955	10	12	14	9	12	15	15	18
Costume jewelry and notions	396	8	10	10	12	8	11	10	11
Costume jewelry	3961	14	17	20	18	15	19	21	18
Fasteners, buttons, needles, and pins	3965	9	10	10	13	9	10	10	13
Miscellaneous manufactures	399	4	4	4	7	4	5	4	7
Brooms and brushes	3991	8	9	12	15	8	9	12	19
Signs and advertising specialties	3993	6	7	7	12	6	8	7	13
Manufacturing industries, n.e.c.	3999	7	8	8	12	7	8	8	13
Nondurable goods		1	1	1	1	1	1	1	1
Food and kindred products	20	1	1	2	1	1	1	1	1
Meat products	201	2	2	4	3	2	2	3	2
Meat packing plants	2011	3	3	4	3	3	3	4	3
Sausages and other prepared meats	2013	7	7	8	7	6	6	8	6
Poultry slaughtering and processing	2015	5	5	8	5	4	4	6	4
Dairy products	202	3	3	3	4	3	3	4	4
Creamery butter	2021	9	9	12	14	9	9	13	14
Cheese, natural and processed	2022	6	7	6	7	6	8	6	7
Dry, condensed, evaporated products	2023	6	9	7	10	6	8	7	9
Ice cream and frozen desserts	2024	5	6	8	9	5	6	8	9
Fluid milk	2026	4	5	6	7	4	5	6	7
Preserved fruits and vegetables	203	4	4	5	5	4	4	5	5
Canned specialties	2032	3	5	3	7	4	5	3	7
Canned fruits and vegetables	2033	8	8	10	13	8	8	10	13
Dehydrated fruits, vegetables, soups	2034	9	10	11	18	9	11	12	19
Pickles, sauces, and salad dressings	2035	5	7	8	9	5	7	8	10
Frozen fruits and vegetables	2037	9	8	11	7	8	8	12	7
Frozen specialties, n.e.c.	2038	7	9	7	12	6	9	6	11
Grain mill products	204	3	4	3	6	3	4	4	6
Flour and other grain mill products	2041	6	7	9	10	6	7	9	10
Cereal breakfast foods	2043	6	10	8	8	7	11	8	8
Rice milling	2044	6	9	6	14	6	9	6	14
Prepared flour mixes and doughs	2045	5	6	5	7	5	6	6	7
Wet corn milling	2046	8	11	9	9	8	12	9	10
Dog and cat food	2047	7	8	9	19	7	8	9	20
Prepared feeds, n.e.c.	2048	7	9	8	12	7	9	8	12
Bakery products	205	3	4	4	5	3	4	4	5
Bread, cake, and related products	2051	5	5	5	7	5	6	5	7
Cookies and crackers	2052	4	4	5	6	4	4	5	6
Frozen bakery products, except bread	2053	9	15	11	18	10	16	13	20
Sugar and confectionery products	206	3	4	4	5	3	3	4	5
Raw cane sugar	2061	4	3	6	4	4	3	6	4
Cane sugar refining	2062	6	7	7	6	6	7	8	7
Beet sugar	2063	7	9	8	10	7	9	8	10
Candy and other confectionery products	2064	6	7	7	9	6	6	7	9
Chocolate and cocoa products	2066	7	10	10	10	7	12	10	12
Chewing gum	2067	4	4	7	6	6	6	8	11
Salted and roasted nuts and seeds	2068	11	10	17	11	11	11	18	11
Fats and oils	207	5	5	7	7	5	5	7	7
Cottonseed oil mills	2074	7	7	10	9	7	8	10	9

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Soybean oil mills	2075	12	15	13	21	11	14	13	21
Vegetable oil mills, n.e.c.	2076	15	16	35	16	15	16	35	16
Animal and marine fats and oils	2077	6	7	8	11	6	6	8	11
Edible fats and oils, n.e.c.	2079	15	15	19	18	16	15	20	17
Beverages	208	3	3	4	4	3	3	4	4
Malt beverages	2082	8	8	9	9	8	8	9	9
Malt	2083	5	4	5	13	5	5	6	13
Wines, brandy, and brandy spirits	2084	6	7	8	12	6	7	9	11
Distilled and blended liquors	2085	8	8	11	7	8	7	12	7
Bottled and canned soft drinks	2086	4	5	5	6	4	4	5	6
Flavoring extracts and syrups, n.e.c.	2087	8	10	11	16	8	10	11	16
Miscellaneous food and kindred products	209	3	3	3	4	3	3	4	4
Fresh or frozen prepared fish	2092	4	5	4	7	4	6	5	8
Roasted coffee	2095	11	11	15	11	11	12	15	12
Potato chips and similar snacks	2096	5	6	8	9	6	6	9	7
Food preparations, n.e.c.	2099	6	6	8	7	6	6	8	8
Tobacco products	21	2	2	3	1	2	2	3	1
Chewing and smoking tobacco	213	9	5	12	3	9	5	13	3
Tobacco stemming and redrying	214	4	4	6	5	4	4	6	5
Textile mill products	22	3	3	3	4	3	3	3	4
Broadwoven fabric mills, cotton	221	10	11	14	14	10	11	15	14
Broadwoven fabric mills, manmade	222	8	13	10	11	9	12	12	10
Broadwoven fabric mills, wool	223	9	10	11	14	8	10	10	15
Narrow fabric mills	224	7	7	9	10	8	7	10	11
Knitting mills	225	4	5	5	8	5	5	6	9
Women's hosiery, except socks	2251	19	13	13	14	11	14	16	15
Hosiery, n.e.c.	2252	11	13	13	20	11	13	14	24
Knit outerwear mills	2253	12	11	18	22	13	12	19	26
Knit underwear mills	2254	8	12	7	15	9	13	9	20
Wet knit fabric mills	2257	8	11	9	15	9	11	10	16
Lace and warp knit fabric mills	2258	15	16	16	24	15	16	17	24
Knitting mills, n.e.c.	2259	8	15	7	9	8	16	8	10
Textile finishing, except wool	226	7	9	7	11	7	9	7	12
Finishing plants, cotton	2261	14	18	13	23	14	19	14	23
Finishing plants, manmade	2262	9	10	11	14	9	10	11	14
Finishing plants, n.e.c.	2269	10	14	9	23	10	14	9	24
Carpets and rugs	227	8	9	11	10	8	9	12	11
Yarn and thread mills	228	8	10	9	12	9	10	10	13
Yarn spinning mills	2281	10	14	11	16	11	14	12	16
Throwing and winding mills	2282	9	14	9	19	9	13	10	19
Thread mills	2284	9	12	16	15	11	13	19	16
Miscellaneous textile goods	229	4	6	5	6	5	6	5	6
Coated fabrics, not rubberized	2295	15	13	18	15	16	14	18	16
Tire cord and fabrics	2296	7	17	4	23	7	18	5	23
Nonwoven fabrics	2297	9	11	10	15	9	12	10	16
Cordage and twine	2298	8	9	11	20	8	9	12	21
Textile goods, n.e.c.	2299	8	12	6	7	8	12	6	7
Apparel and other textile products	23	3	3	4	4	3	3	4	5
Men's and boys' suits and coats	231	9	9	11	14	10	11	13	16
Men's and boys' furnishings	232	3	4	4	5	3	4	5	5

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Men's and boys' shirts	2321	7	7	9	9	7	8	9	10
Men's and boys' underwear and nightwear	2322	11	13	13	21	12	9	17	15
Men's and boys' trousers and slacks	2325	6	7	7	9	6	8	7	8
Men's and boys' work clothing	2326	9	9	10	9	10	11	11	12
Men's and boys' clothing, n.e.c.	2329	8	7	11	10	8	7	12	10
Women's and misses' outerwear	233	12	12	16	17	13	14	17	22
Women's and misses' blouses and shirts	2331	16	19	18	29	15	20	17	29
Women's and misses' suits and coats	2337	15	14	20	17	15	14	20	20
Women's and misses' outerwear, n.e.c.	2339	17	18	23	25	19	21	26	31
Women's and children's undergarments	234	12	9	15	10	8	9	9	10
Women's and children's underwear	2341	14	10	18	11	9	10	10	11
Bras, girdles, and allied garments	2342	12	15	15	22	12	13	16	24
Hats, caps, and millinery	235	10	11	12	14	12	14	14	20
Girls' and children's outerwear	236	10	11	12	15	9	11	10	14
Girls' and children's dresses, blouses	2361	9	15	11	31	10	17	11	40
Girls' and children's outerwear, n.e.c.	2369	13	14	16	18	11	13	13	12
Miscellaneous apparel and accessories	238	9	11	8	16	9	12	9	19
Robes and dressing gowns	2384	5	5	5	13	5	5	5	13
Waterproof outerwear	2385	6	10	6	10	8	12	8	14
Apparel and accessories, n.e.c.	2389	18	22	16	31	19	24	17	37
Miscellaneous fabricated textile products	239	4	5	5	8	4	5	6	8
Curtains and draperies	2391	13	29	14	42	12	26	15	34
Housefurnishings, n.e.c.	2392	7	10	9	11	8	10	10	12
Textile bags	2393	9	13	9	17	9	14	10	18
Canvas and related products	2394	8	10	11	17	8	11	11	18
Pleating and stitching	2395	10	15	14	25	13	15	14	21
Automotive and apparel trimmings	2396	10	12	12	17	11	12	14	25
Fabricated textile products, n.e.c.	2399	8	8	13	12	8	9	13	12
Paper and allied products	26	2	2	2	3	2	2	2	3
Pulp mills	261	5	9	5	8	6	9	7	8
Paper mills	262	4	5	4	6	4	5	4	7
Paperboard mills	263	6	8	8	10	6	8	8	10
Paperboard containers and boxes	265	3	3	3	5	3	4	4	5
Setup paperboard boxes	2652	12	16	12	19	11	14	11	18
Corrugated and solid fiber boxes	2653	4	5	5	6	4	5	5	6
Fiber cans, drums and similar products	2655	8	10	11	17	9	10	11	18
Sanitary food containers	2656	12	18	11	29	13	20	12	31
Folding paperboard boxes	2657	5	7	6	9	5	6	7	10
Miscellaneous converted paper products	267	3	3	4	4	3	4	4	5
Paper coated and laminated, packaging	2671	8	11	10	15	9	12	10	15
Paper coated and laminated, n.e.c.	2672	11	13	14	20	12	14	16	22
Bags: plastics, laminated, and coated	2673	7	9	8	9	7	9	8	10
Die-cut paper and board	2675	12	14	17	20	13	16	17	23
Sanitary paper products	2676	7	9	10	11	8	8	11	12
Envelopes	2677	7	9	9	10	7	9	10	10
Stationery products	2678	11	14	14	26	12	16	15	30
Converted paper products, n.e.c.	2679	8	10	10	12	9	10	11	13
Printing and publishing	27	3	3	3	5	3	3	3	5
Newspapers	271	6	6	8	11	6	6	8	11
Periodicals	272	16	24	15	14	17	26	16	16
Books	273	9	12	10	12	9	11	11	13
Book publishing	2731	14	17	15	16	13	16	15	17

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Book printing	2732	12	14	14	17	13	15	15	21
Miscellaneous publishing	274	12	14	13	25	12	15	13	28
Commercial printing	275	4	5	5	8	4	5	5	8
Commercial printing, lithographic	2752	5	6	7	10	5	6	7	11
Commercial printing, gravure	2754	7	7	11	12	8	8	11	10
Commercial printing, n.e.c.	2759	6	8	8	12	6	8	8	13
Manifold business forms	276	7	8	9	13	7	8	9	14
Greeting cards	277	14	18	15	22	13	16	14	20
Blankbooks and bookbinding	278	9	12	11	19	9	11	11	17
Blankbooks and looseleaf binders	2782	13	17	14	27	12	16	14	26
Bookbinding and related work	2789	11	13	16	23	12	13	16	16
Printing trade services	279	20	21	25	51	20	21	26	52
Chemicals and allied products	28	2	3	3	4	2	2	3	4
Industrial inorganic chemicals	281	5	5	6	7	5	5	7	7
Alkalies and chlorine	2812	11	12	14	15	11	12	15	16
Industrial gases	2813	17	15	23	21	18	16	24	23
Inorganic pigments	2816	11	11	15	13	12	12	16	13
Plastics materials and synthetics	282	4	6	5	6	5	6	5	6
Plastics materials and resins	2821	7	9	7	11	7	9	8	11
Organic fibers, noncellulosic	2824	7	13	6	7	9	15	8	8
Drugs	283	6	8	7	10	6	7	8	10
Medicinals and botanicals	2833	4	7	8	9	5	7	10	10
Pharmaceutical preparations	2834	7	9	8	12	7	8	9	13
Diagnostic substances	2835	10	10	15	13	11	11	16	18
Soap, cleaners, and toilet goods	284	5	6	6	12	5	6	6	13
Polishes and sanitation goods	2842	12	13	14	36	12	13	15	40
Surface active agents	2843	12	14	16	15	13	14	17	16
Toilet preparations	2844	8	9	10	14	7	9	9	14
Paints and allied products	285	9	10	11	12	9	9	11	12
Industrial organic chemicals	286	7	7	8	8	7	7	8	8
Gum and wood chemicals	2861	16	15	21	18	16	15	21	18
Cyclic crudes and intermediates	2865	6	7	8	11	7	7	9	11
Industrial organic chemicals, n.e.c.	2869	9	10	11	12	10	10	11	12
Agricultural chemicals	287	6	8	7	10	6	8	7	10
Nitrogenous fertilizers	2873	11	13	12	17	11	12	12	17
Phosphatic fertilizers	2874	18	19	18	25	19	19	20	25
Fertilizers, mixing only	2875	9	14	12	17	9	14	12	17
Miscellaneous chemical products	289	6	7	7	11	6	7	7	10
Adhesives and sealants	2891	13	14	14	20	14	15	15	21
Explosives	2892	19	21	17	41	15	16	14	35
Printing ink	2893	8	12	10	21	9	12	11	23
Carbon black	2895	13	26	18	21	13	26	18	21
Chemical preparations, n.e.c.	2899	9	11	11	15	10	11	11	16
Petroleum and coal products	29	7	10	8	10	7	10	7	10
Petroleum refining	291	12	15	13	14	12	16	12	14
Asphalt paving and roofing materials	295	7	8	8	12	7	8	8	12
Asphalt paving mixtures and blocks	2951	10	16	11	23	10	16	11	23
Asphalt felts and coatings	2952	9	8	11	14	9	9	12	14
Miscellaneous petroleum and coal products	299	8	8	11	13	9	8	13	14

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Lubricating oils and greases	2992	10	9	14	17	10	9	14	18
Petroleum and coal products, n.e.c.	2999	4	6	4	7	5	6	8	7
Rubber and miscellaneous plastics products	30	2	2	2	3	2	2	2	3
Tires and inner tubes	301	5	4	6	6	5	4	7	6
Rubber and plastics footwear	302	6	7	8	12	6	7	8	11
Hose and belting and gaskets and packing	305	5	6	6	8	5	7	7	8
Rubber and plastics hose and belting	3052	8	10	10	11	8	11	10	10
Gaskets, packing and sealing devices	3053	7	8	9	12	7	8	8	12
Fabricated rubber products, n.e.c.	306	3	4	4	5	3	4	4	6
Mechanical rubber goods	3061	4	5	6	8	4	6	6	9
Fabricated rubber products, n.e.c.	3069	5	5	6	7	5	6	6	7
Miscellaneous plastics products, n.e.c.	308	2	3	3	4	2	3	3	4
Unsupported plastics film and sheet	3081	5	6	6	9	5	6	7	9
Unsupported plastics profile shapes	3082	6	7	7	11	6	7	7	12
Laminated plastics plate and sheet	3083	7	8	9	10	7	8	9	10
Plastics pipe	3084	5	6	7	10	5	6	7	10
Plastics bottles	3085	6	8	7	11	6	8	8	12
Plastics foam products	3086	5	5	6	7	4	5	6	7
Custom compound purchased resins	3087	7	7	8	9	7	8	8	9
Plastics plumbing fixtures	3088	6	7	9	9	7	7	10	10
Plastics products, n.e.c.	3089	4	4	4	6	4	4	5	6
Leather and leather products	31	3	4	4	5	3	3	4	5
Leather tanning and finishing	311	5	5	7	9	5	5	7	9
Footwear cut stock	313	9	7	15	11	10	9	16	16
Footwear, except rubber	314	6	8	5	8	5	6	6	8
House slippers	3142	9	6	13	6	11	8	14	12
Men's footwear, except athletic	3143	9	14	8	14	7	9	8	12
Women's footwear, except athletic	3144	11	11	13	12	10	10	14	14
Luggage	315	7	6	9	9	9	7	11	9
Handbags and personal leather goods	317	16	13	20	16	17	14	20	20
Personal leather goods, n.e.c.	3172	10	10	11	11	11	11	12	13
Transportation and public utilities		1	1	2	2	1	1	2	2
Railroad transportation	40	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Local and interurban passenger transit	41	5	6	7	10	5	6	7	10
Local and suburban transportation	411	8	9	12	16	8	9	12	16
Taxicabs	412	15	17	18	32	15	17	18	32
School buses	415	8	8	10	13	8	8	10	13
Trucking and warehousing	42	2	3	3	4	2	3	3	4
Trucking and courier services, except air	421	3	3	3	4	3	3	3	4
Public warehousing and storage	422	4	5	5	8	4	5	5	8
Water transportation	44	6	5	9	6	6	5	9	6
Water transportation services	449	6	5	11	6	6	5	12	6
Transportation by air	45	3	3	4	5	3	3	4	5
Air transportation, scheduled	451	3	4	5	5	3	4	5	5
Air transportation, nonscheduled	452	18	21	18	19	18	21	18	19
Airports, flying fields, and services	458	6	7	8	9	6	7	8	9
Pipelines, except natural gas	46	11	14	12	27	10	14	12	27
Transportation services	47	7	9	8	21	8	9	8	23

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Freight transportation arrangement	473	13	15	15	33	13	15	15	36
Miscellaneous transportation services	478	6	7	8	9	6	7	8	9
Communications	48	4	5	5	8	4	5	5	7
Telephone communications	481	7	7	9	11	7	7	9	10
Telegraph and other communications	482	14	22	18	35	14	22	17	35
Radio and television broadcasting	483	12	14	18	17	12	14	18	18
Cable and other pay tv services	484	5	8	7	11	6	8	7	11
Communication services, n.e.c.	489	16	17	24	14	17	17	26	14
Electric, gas, and sanitary services	49	3	3	3	4	3	3	4	4
Electric services	491	5	5	6	7	5	6	6	7
Gas production and distribution	492	5	6	7	8	5	6	7	8
Combination utility services	493	6	7	9	11	6	7	9	10
Water supply	494	6	8	8	14	6	8	9	14
Sanitary services	495	6	7	7	10	6	7	8	10
Irrigation systems	497	8	10	10	18	8	10	10	18
Wholesale and retail trade		1	1	1	2	1	1	1	2
Wholesale trade		2	2	2	3	2	2	2	3
Wholesale trade durable goods	50	3	3	3	5	3	3	3	5
Motor vehicles, parts, and supplies	501	5	6	6	10	5	6	6	10
Furniture and home furnishings	502	17	22	18	31	16	20	18	30
Lumber and construction materials	503	6	8	7	15	6	8	7	15
Professional and commercial equipment	504	9	10	11	15	8	9	11	15
Metals and minerals, except petroleum	505	6	7	8	12	6	7	8	12
Electrical goods	506	11	14	14	18	12	14	14	20
Hardware, plumbing and heating equipment	507	11	16	13	44	11	16	13	45
Machinery, equipment, and supplies	508	6	7	7	12	6	7	7	12
Miscellaneous durable goods	509	5	6	6	9	5	6	7	9
Wholesale trade nondurable goods	51	3	3	4	4	3	3	4	4
Paper and paper products	511	13	16	16	24	13	16	17	24
Drugs, proprietaries, and sundries	512	19	19	22	24	19	20	23	24
Groceries and related products	514	3	4	5	5	3	4	5	6
Farm-product raw materials	515	7	9	8	13	7	9	8	13
Petroleum and petroleum products	517	11	13	15	20	11	13	16	20
Beer, wine, and distilled beverages	518	5	7	7	11	5	7	7	11
Miscellaneous nondurable goods	519	8	8	11	13	8	8	11	13
Retail trade		1	2	2	3	1	2	2	3
Building materials and garden supplies	52	3	3	4	6	3	3	4	6
Lumber and other building materials	521	3	4	4	6	3	4	4	6
Paint, glass, and wallpaper stores	523	19	16	26	26	18	16	26	26
Hardware stores	525	11	12	13	18	11	12	13	18
Retail nurseries and garden stores	526	14	17	16	31	14	17	16	32
General merchandise stores	53	2	3	3	4	2	3	3	4
Department stores	531	3	3	4	5	3	3	4	5
Variety stores	533	9	12	10	24	9	12	10	25
Miscellaneous general merchandise stores	539	6	8	7	11	6	8	7	11
Food stores	54	3	4	4	6	3	4	4	6
Grocery stores	541	3	4	4	6	3	4	4	6
Automotive dealers and service stations	55	3	4	3	7	3	4	3	7
New and used car dealers	551	3	4	4	7	3	4	4	7
Auto and home supply stores	553	5	7	6	11	5	7	6	12
Gasoline service stations	554	9	11	12	20	9	11	12	20
Apparel and accessory stores	56	7	10	9	14	7	10	9	14
Women's clothing stores	562	19	34	19	51	18	32	19	49
Family clothing stores	565	10	12	12	18	10	12	12	18
Shoe stores	566	15	17	21	42	15	18	21	44

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Furniture and homel furnishings stores	57	6	7	8	12	6	7	8	12
Furniture and homel furnishings stores	571	8	8	10	13	8	8	10	13
Household appliance stores	572	15	17	20	28	15	17	20	28
Radio, television, and computer stores	573	15	17	18	34	15	17	18	34
Eating and drinking places	58	3	4	4	8	3	4	4	8
Miscellaneous retail	59	5	6	7	9	5	6	7	9
Drug stores and proprietary stores	591	7	9	9	19	7	9	9	19
Miscellaneous shopping goods stores	594	12	12	15	20	12	12	15	21
Nonstore retailers	596	9	9	11	12	9	9	11	12
Fuel dealers	598	17	19	23	28	17	19	24	28
Finance, insurance, and real estate		3	4	4	7	3	4	4	7
Depository institutions	60	7	9	10	13	8	9	10	14
Commercial banks	602	8	9	11	14	8	9	11	14
Nondepository institutions	61	13	15	16	23	13	16	17	26
Insurance carriers	63	7	10	8	17	7	11	9	21
Life insurance	631	9	10	14	24	10	11	15	27
Medical service and health insurance	632	11	19	12	21	12	20	13	26
Fire, marine, and casualty insurance	633	10	11	13	14	11	11	15	13
Insurance agents, brokers, and service	64	13	22	13	19	13	25	13	22
Real estate	65	5	5	6	11	5	5	6	11
Real estate operators and lessors	651	7	8	9	12	7	8	9	12
Real estate agents and managers	653	8	9	9	25	8	9	9	26
Subdividers and developers	655	10	12	13	23	10	12	12	24
Holding and other investment offices	67	14	22	11	21	13	20	12	23
Holding offices	671	10	11	13	24	10	11	13	26
Services		1	1	2	2	1	1	2	2
Hotels and other lodging places	70	3	3	3	5	3	3	3	5
Hotels and motels	701	3	3	3	5	3	3	3	5
Personal services	72	5	7	7	11	5	7	7	11
Laundry, cleaning, and garment services	721	6	8	8	13	6	8	8	14
Business services	73	4	5	5	7	4	5	5	7
Mailing, reproduction, stenographic	733	20	23	22	34	21	23	23	36
Services to buildings	734	9	10	12	13	9	10	11	13
Personnel supply services	736	8	9	9	12	8	9	9	12
Computer and data processing services	737	11	17	12	21	11	17	12	23
Miscellaneous business services	738	8	8	10	15	8	9	11	15
Auto repair, services, and parking	75	4	4	5	8	4	4	5	8
Automotive rentals, no drivers	751	5	6	7	9	6	6	7	9
Automobile parking	752	15	19	19	30	14	17	19	31
Automotive repair shops	753	5	6	6	13	5	6	6	13
Automotive services, except repair	754	12	13	17	16	12	13	18	16
Miscellaneous repair services	76	3	4	4	6	3	4	4	6
Electrical repair shops	762	7	8	8	14	7	8	8	14
Miscellaneous repair shops	769	3	4	4	7	3	4	4	7
Motion pictures	78	8	10	9	15	8	10	9	15
Motion picture production and services	781	12	14	12	15	12	14	13	15
Motion picture theaters	783	9	14	10	24	9	14	10	24
Amusement and recreation services	79	4	4	5	6	4	4	5	6
Bowling centers	793	20	31	22	42	21	31	24	42
Miscellaneous amusement, recreation services	799	4	4	5	6	4	4	5	6

See footnotes at end of table.

Table A-1. Relative standard errors for measures of occupational injuries and illnesses and occupational injuries by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²							
		Injuries and illnesses				Injuries			
		Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays	Total cases	Lost workday cases	Nonfatal cases without lost workdays	Lost workdays
Health services	80	2	2	3	3	2	2	3	3
Nursing and personal care facilities	805	2	2	3	4	2	2	4	4
Hospitals	806	3	2	4	4	3	2	4	4
Legal services	81	11	15	15	27	12	17	15	28
Educational services	82	5	6	8	9	6	6	8	9
Elementary and secondary schools	821	16	14	32	19	16	14	32	19
Colleges and universities	822	4	4	5	5	4	4	6	6
Social services	83	4	5	5	14	4	5	5	14
Individual and family services	832	11	13	14	24	12	14	14	25
Job training and related services	833	8	9	10	17	8	9	10	17
Child day care services	835	19	15	18	30	13	15	18	30
Residential care	836	7	9	9	28	7	9	9	28
Social services, n.e.c.	839	16	19	18	24	16	19	18	25
Museums, botanical, zoological gardens	84	5	6	7	13	5	5	7	14
Museums and art galleries	841	6	8	8	18	6	7	9	18
Botanical and zoological gardens	842	8	8	11	18	8	8	11	18
Engineering and management services	87	5	6	5	8	5	6	6	9
Engineering and architectural services	871	8	11	8	17	8	12	9	17
Accounting, auditing, and bookkeeping	872	19	23	24	25	21	25	25	27
Research and testing services	873	6	9	7	11	7	9	7	12
Management and public relations	874	12	15	14	17	12	14	14	18

¹ Standard Industrial Classification Manual, 1987 Edition.

² See discussion on reliability of estimates.

³ Relative standard error of less than 0.5.

n.e.c. = not elsewhere classified.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines. Relative standard errors were not calculated for coal and lignite mining (SIC 12), metal and nonmetal mining (SIC 10 and 14), and railroads (SIC 40).

Table A-2. Relative standard errors for measures of occupational illnesses by industry, 1991

Industry	SIC code ¹	Relative standard error (percent) ²		Industry	SIC code ¹	Relative standard error (percent) ²	
		Total cases				Total cases	
Private industry		1		Fabricated metal products	34	3	
Agriculture, forestry, and fishing		6		Metal cans and shipping containers	341	19	
Agricultural production	01-02	8		Cutlery, handtools, and hardware	342	6	
Agricultural services	07	11		Plumbing and heating, except electric	343	3	
Forestry	08	11		Fabricated structural metal products	344	6	
Fishing, hunting, and trapping	09	59		Screw machine products, bolts, etc.	345	11	
Mining		4		Metal forgings and stampings	346	6	
Oil and gas extraction	13	13		Metal services, n.e.c.	347	16	
Construction		7		Ordinance and accessories, n.e.c.	348	4	
General building contractors	15	16		Miscellaneous fabricated metal products ..	349	6	
Residential building construction	152	27		Industrial machinery and equipment	35	2	
Operative builders	153	50		Engines and turbines	351	6	
Nonresidential building construction	154	20		Farm and garden machinery	352	6	
Heavy construction, except building	16	10		Construction and related machinery	353	6	
Highway and street construction	161	14		Metalworking machinery	354	7	
Heavy construction, except highway	162	12		Special industry machinery	355	10	
Special trade contractors	17	9		General industrial machinery	356	7	
Plumbing, heating, air-conditioning	171	19		Computer and office equipment	357	8	
Painting and paper hanging	172	-		Refrigeration and service machinery	358	5	
Electrical work	173	20		Industrial machinery, n.e.c.	359	10	
Masonry, stonework, and plastering	174	22		Electronic and other electric equipment ..	36	3	
Carpentry and floor work	175	47		Electric distribution equipment	361	12	
Roofing, siding, and sheet metal work	176	34		Electrical industrial apparatus	362	8	
Concrete work	177	25		Household appliances	363	3	
Water well drilling	178	33		Electric lighting and wiring equipment	364	9	
Miscellaneous special trade contractors ..	179	20		Household audio and video equipment	365	9	
Manufacturing		1		Communications equipment	366	11	
Durable goods		1		Electronic components and accessories ..	367	6	
Lumber and wood products	24	5		Miscellaneous electrical equipment and supplies	369	13	
Logging	241	15		Transportation equipment	37	2	
Sawmills and planing mills	242	11		Motor vehicles and equipment	371	2	
Millwork, plywood and structural members ..	243	7		Aircraft and parts	372	4	
Wood containers	244	29		Ship and boat building and repairing	373	1	
Wood buildings and mobile homes	245	22		Railroad equipment	374	11	
Miscellaneous wood products	249	11		Motorcycles, bicycles, and parts	375	9	
Furniture and fixtures	25	5		Guided missiles, space vehicles, parts ..	376	3	
Household furniture	251	8		Miscellaneous transportation equipment ..	379	10	
Office furniture	252	6		Instruments and related products	38	5	
Public building and related furniture	253	10		Search and navigation equipment	381	14	
Partitions and fixtures	254	16		Measuring and controlling devices	382	6	
Miscellaneous furniture and fixtures	259	12		Medical instruments and supplies	384	10	
Stone, clay, and glass products	32	7		Ophthalmic goods	385	15	
Flat glass	321	6		Photographic equipment and supplies	386	18	
Glass and glassware, pressed or blown	322	20		Watches, clocks, watchcases and parts ..	387	14	
Products of purchased glass	323	11		Miscellaneous manufacturing industries ..	39	5	
Structural clay products	325	9		Jewelry, silverware, and plated ware	391	15	
Pottery and related products	326	9		Musical instruments	393	10	
Concrete, gypsum, and plaster products	327	13		Toys and sporting goods	394	8	
Cut stone and stone products	328	49		Pens, pencils, office, and art supplies ..	395	9	
Miscellaneous nonmetallic mineral products ..	329	8		Costume jewelry and notions	396	12	
Primary metal industries	33	3		Miscellaneous manufactures	399	10	
Blast furnace and basic steel products	331	8		Nondurable goods		2	
Iron and steel foundries	332	5		Food and kindred products	20	4	
Primary nonferrous metals	333	6		Meat products	201	4	
Secondary nonferrous metals	334	14		Dairy products	202	7	
Nonferrous rolling and drawing	335	4		Preserved fruits and vegetables	203	8	
Nonferrous foundries (castings)	336	7		Grain mill products	204	10	
Miscellaneous primary metal products	339	15		Bakery products	205	11	
				Sugar and confectionery products	206	12	
				Fats and oils	207	17	
				Beverages	208	8	
				Miscellaneous food and kindred products ..	209	7	
				Tobacco products	21	2	
				Chewing and smoking tobacco	213	4	

See footnotes at end of table.

Table A-2. Relative standard errors for measures of occupational illnesses by industry, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²		Industry	SIC code ¹	Relative standard error (percent) ²	
		Total cases				Total cases	
Tobacco stemming and redrying	214	9		Local and interurban passenger transit	41	25	
Textile mill products	22	6		Trucking and warehousing	42	12	
Broadwoven fabric mills, cotton	221	22		Water transportation	44	16	
Broadwoven fabric mills, manmade	222	30		Transportation by air	45	9	
Broadwoven fabric mills, wool	223	54		Pipelines, except natural gas	46	-	
Narrow fabric mills	224	12		Transportation services	47	21	
Knitting mills	225	9		Communications	48	14	
Textile finishing, except wool	226	14		Electric, gas, and sanitary services	49	7	
Carpets and rugs	227	23		Wholesale and retail trade		7	
Yarn and thread mills	228	12		Wholesale trade		11	
Miscellaneous textile goods	229	9		Wholesale trade durable goods	50	13	
Apparel and other textile products	23	6		Wholesale trade nondurable goods	51	19	
Men's and boys' suits and coats	231	15		Retail trade		8	
Men's and boys' furnishings	232	8		Building materials and garden supplies	52	28	
Women's and misses' outerwear	233	21		General merchandise stores	53	15	
Women's and children's undergarments	234	57		Food stores	54	17	
Hats, caps, and millinery	235	18		Automotive dealers and service stations	55	18	
Girls' and children's outerwear	236	43		Apparel and accessory stores	56	34	
Miscellaneous apparel and accessories	238	8		Furniture and home furnishings stores	57	36	
Miscellaneous fabricated textile products	239	10		Eating and drinking places	58	21	
Paper and allied products	26	4		Miscellaneous retail	59	16	
Pulp mills	261	19		Finance, insurance, and real estate		14	
Paper mills	262	8		Depository institutions	60	26	
Paperboard mills	263	16		Nondepository institutions	61	30	
Paperboard containers and boxes	265	11		Insurance carriers	63	15	
Miscellaneous converted paper products	267	7		Insurance agents, brokers, and service	64	39	
Printing and publishing	27	9		Real estate	65	23	
Newspapers	271	18		Holding and other investment offices	67	47	
Periodicals	272	9		Services		6	
Books	273	26		Hotels and other lodging places	70	11	
Miscellaneous publishing	274	31		Personal services	72	26	
Commercial printing	275	14		Business services	73	18	
Manifold business forms	276	34		Auto repair, services, and parking	75	18	
Greeting cards	277	28		Miscellaneous repair services	76	15	
Blankbooks and bookbinding	278	37		Motion pictures	78	49	
Printing trade services	279	-		Amusement and recreation services	79	10	
Chemicals and allied products	28	6		Health services	80	8	
Industrial inorganic chemicals	281	9		Legal services	81	35	
Plastics materials and synthetics	282	5		Educational services	82	11	
Drugs	283	13		Social services	83	22	
Soap, cleaners, and toilet goods	284	14		Museums, botanical, zoological gardens	84	25	
Paints and allied products	285	26		Engineering and management services	87	12	
Industrial organic chemicals	286	16					
Agricultural chemicals	287	19					
Miscellaneous chemical products	289	24					
Petroleum and coal products	29	22					
Petroleum refining	291	27					
Asphalt paving and roofing materials	295	17					
Miscellaneous petroleum and coal products	299	12					
Rubber and miscellaneous plastics products	30	6					
Tires and inner tubes	301	9					
Rubber and plastics footwear	302	14					
Hose and belting and gaskets and packing	305	15					
Fabricated rubber products, n.e.c.	306	8					
Miscellaneous plastics products, n.e.c.	308	8					
Leather and leather products	31	9					
Leather tanning and finishing	311	14					
Footwear cut stock	313	19					
Footwear, except rubber	314	14					
Luggage	316	3					
Handbags and personal leather goods	317	3					
Transportation and public utilities		5					

¹ Standard Industrial Classification Manual, 1987 Edition.² See discussion on reliability of estimates.

n.e.c. = not elsewhere classified.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines. Relative standard errors were not calculated for coal mining (SIC 12), metal and nonmetal mining (SIC 10 and 14), and railroads (SIC 40).

Table A-3. Relative standard errors for measures of occupational illnesses by industry, and category of illness, 1991

Industry	SIC code ¹	Relative standard error (percent) ²						
		Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Private industry		2	11	6	8	3	1	5
Agriculture, forestry, and fishing		8	34	16	21	37	15	16
Agricultural production	01-02	9	38	19	32	35	15	19
Agricultural services	07	13	-	31	30	-	44	29
Forestry	08	12	(³)	-	-	-	53	34
Fishing, hunting, and trapping	09	-	(³)	-	(³)	-	-	-
Mining		15	1	29	14	21	4	20
Oil and gas extraction	13	25	-	34	-	30	22	26
Construction		11	43	15	27	14	15	20
General building contractors	15	34	-	22	-	41	30	34
Residential building construction	152	51	-	-	-	-	41	-
Operative builders	153	38	(³)	(³)	(³)	(³)	58	-
Nonresidential building construction	154	48	-	22	-	42	44	43
Heavy construction, except building	16	13	54	26	28	21	33	26
Highway and street construction	161	19	-	-	49	22	-	51
Heavy construction, except highway	162	16	52	27	34	35	40	29
Special trade contractors	17	15	57	24	37	20	18	32
Plumbing, heating, air-conditioning	171	31	-	41	-	35	54	58
Painting and paper hanging	172	28	-	59	-	(³)	-	-
Electrical work	173	34	-	57	-	40	50	57
Masonry, stonework, and plastering	174	41	-	-	-	-	28	-
Carpentry and floor work	175	-	-	-	-	-	-	-
Roofing, siding, and sheet metal work	176	-	(³)	-	-	-	-	36
Concrete work	177	33	-	53	-	57	-	55
Water well drilling	178	49	(³)	-	-	57	(³)	-
Miscellaneous special trade contractors	179	35	-	-	54	36	46	48
Manufacturing		2	9	3	11	2	1	3
Durable goods		2	12	4	5	2	1	3
Lumber and wood products	24	9	49	29	21	18	6	15
Logging	241	46	-	54	34	-	20	36
Sawmills and planing mills	242	20	32	-	40	43	13	25
Millwork, plywood and structural members	243	13	-	52	27	23	8	19
Wood containers	244	-	(³)	(³)	(³)	45	27	-
Wood buildings and mobile homes	245	25	32	(³)	(³)	27	32	56
Miscellaneous wood products	249	17	-	46	35	39	14	38
Furniture and fixtures	25	8	33	13	37	21	6	19
Household furniture	251	11	31	15	35	30	10	29
Office furniture	252	23	-	-	-	58	6	38
Public building and related furniture	253	18	(³)	19	(³)	20	11	44
Partitions and fixtures	254	29	(³)	50	(³)	39	21	57
Miscellaneous furniture and fixtures	259	27	-	21	(³)	(³)	13	35
Stone, clay, and glass products	32	8	30	39	21	15	7	10
Flat glass	321	20	2	7	2	2	6	23
Glass and glassware, pressed or blown	322	19	39	-	37	39	18	27
Products of purchased glass	323	20	(³)	38	58	39	13	31
Structural clay products	325	14	-	18	-	43	11	14
Pottery and related products	326	11	41	18	(³)	38	10	18
Concrete, gypsum, and plaster products	327	26	-	47	42	40	19	17
Cut stone and stone products	328	-	(³)	(³)	(³)	-	-	19
Miscellaneous nonmetallic mineral products	329	15	-	17	-	5	12	31
Primary metal industries	33	4	51	5	10	9	3	10
Blast furnace and basic steel products	331	8	-	11	23	13	11	23
Iron and steel foundries	332	10	9	10	10	11	7	8
Primary nonferrous metals	333	14	28	13	9	16	9	18
Secondary nonferrous metals	334	22	(³)	16	-	38	23	36
Nonferrous rolling and drawing	335	9	13	9	51	11	5	25
Nonferrous foundries (castings)	336	13	45	12	25	-	8	24

See footnotes at end of table.

Table A-3. Relative standard errors for measures of occupational illnesses by industry, and category of illness, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²						
		Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Miscellaneous primary metal products	339	27	(³)	49	(³)	-	19	43
Fabricated metal products	34	4	26	11	13	4	3	9
Metal cans and shipping containers	341	33	(³)	37	-	-	24	50
Cutlery, handtools, and hardware	342	10	-	17	32	30	7	17
Plumbing and heating, except electric	343	11	37	33	40	3	9	47
Fabricated structural metal products	344	10	43	23	-	14	8	21
Screw machine products, bolts, etc.	345	13	-	44	41	-	22	49
Metal forgings and stampings	346	7	(³)	16	3	21	7	7
Metal services, n.e.c.	347	25	-	37	52	-	22	-
Ordinance and accessories, n.e.c.	348	7	1	13	1	5	4	17
Miscellaneous fabricated metal products	349	10	44	30	56	20	8	24
Industrial machinery and equipment	35	4	27	20	26	12	3	10
Engines and turbines	351	9	-	20	(³)	18	6	5
Farm and garden machinery	352	13	(³)	16	18	34	6	33
Construction and related machinery	353	10	47	26	29	17	6	35
Metallworking machinery	354	9	-	25	-	19	11	31
Special industry machinery	355	12	-	24	-	40	15	24
General industrial machinery	356	9	37	22	-	23	9	20
Computer and office equipment	357	11	9	-	51	-	7	34
Refrigeration and service machinery	358	10	-	21	25	22	6	11
Industrial machinery, n.e.c.	359	14	50	-	37	45	12	30
Electronic and other electric equipment	36	5	28	10	15	11	4	8
Electric distribution equipment	361	17	(³)	28	-	48	15	24
Electrical industrial apparatus	362	11	39	26	-	35	10	44
Household appliances	363	9	(³)	10	23	32	3	4
Electric lighting and wiring equipment	364	10	54	47	17	18	9	28
Household audio and video equipment	365	18	51	37	14	31	10	43
Communications equipment	366	18	13	-	23	10	12	15
Electronic components and accessories	367	10	-	13	27	34	7	12
Miscellaneous electrical equipment and supplies	369	12	16	19	22	24	17	16
Transportation equipment	37	3	15	6	8	3	2	5
Motor vehicles and equipment	371	4	30	11	10	6	2	8
Aircraft and parts	372	8	28	8	16	8	4	10
Ship and boat building and repairing	373	6	20	4	25	2	2	9
Railroad equipment	374	14	-	11	(³)	28	6	33
Motorcycles, bicycles, and parts	375	10	(³)	3	(³)	19	7	38
Guided missiles, space vehicles, parts	376	6	43	10	1	9	3	2
Miscellaneous transportation equipment	379	17	-	34	29	37	5	7
Instruments and related products	38	8	36	12	13	16	6	17
Search and navigation equipment	381	18	57	40	5	18	21	15
Measuring and controlling devices	382	13	16	15	38	40	7	21
Medical instruments and supplies	384	16	-	19	26	58	12	44
Ophthalmic goods	385	21	-	31	-	(³)	17	36
Photographic equipment and supplies	386	15	-	(³)	(³)	(³)	22	37
Watches, clocks, watchcases and parts	387	37	(³)	(³)	(³)	(³)	17	(³)
Miscellaneous manufacturing industries	39	13	57	13	12	21	6	21
Jewelry, silverware, and plated ware	391	45	-	-	(³)	40	13	55
Musical instruments	393	18	(³)	20	39	49	12	35
Toys and sporting goods	394	24	-	18	46	27	10	24
Pens, pencils, office, and art supplies	395	6	(³)	15	6	13	2	16
Costume jewelry and notions	396	23	(³)	28	(³)	3	11	30
Miscellaneous manufactures	399	22	-	17	-	-	12	44
Nondurable goods		4	15	6	41	7	2	7
Food and kindred products	20	6	17	11	16	7	4	10
Meat products	201	9	38	10	19	10	4	16
Dairy products	202	12	29	26	-	20	8	37
Preserved fruits and vegetables	203	20	-	18	16	23	10	25
Grain mill products	204	20	55	22	-	15	14	33
Bakery products	205	13	26	-	48	20	12	20
Sugar and confectionery products	206	28	-	18	39	34	11	28
Fats and oils	207	21	-	29	(³)	51	25	39
Beverages	208	13	51	24	36	24	11	23
Miscellaneous food and kindred products	209	8	21	22	55	13	8	29

See footnotes at end of table.

Table A-3. Relative standard errors for measures of occupational illnesses by industry, and category of illness, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²						
		Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Tobacco products	21	1	()	1	()	5	3	16
Chewing and smoking tobacco	213	()	()	2	()	()	4	()
Tobacco stemming and redrying	214	2	()	()	()	11	34	21
Textile mill products	22	12	34	18	32	44	7	13
Broadwoven fabric mills, cotton	221	-	-	57	()	-	27	-
Broadwoven fabric mills, manmade	222	-	-	-	()	-	38	33
Broadwoven fabric mills, wool	223	35	58	()	()	()	-	58
Narrow fabric mills	224	25	()	22	()	20	13	22
Knitting mills	225	19	-	28	()	-	9	22
Textile finishing, except wool	226	18	()	43	51	-	24	47
Carpets and rugs	227	23	()	35	44	29	31	30
Yarn and thread mills	228	30	-	39	()	34	18	18
Miscellaneous textile goods	229	24	()	28	48	36	8	11
Apparel and other textile products	23	9	-	13	-	31	6	35
Men's and boys' suits and coats	231	43	()	48	()	41	15	52
Men's and boys' furnishings	232	12	-	12	48	-	9	16
Women's and misses' outerwear	233	29	49	-	()	-	23	-
Women's and children's undergarments	234	-	()	-	-	46	18	39
Hats, caps, and millinery	235	17	()	()	-	-	18	-
Girl's and children's outerwear	236	17	()	-	37	55	49	8
Miscellaneous apparel and accessories	238	36	()	22	57	56	4	35
Miscellaneous fabricated textile products	239	15	-	22	-	31	11	27
Paper and allied products	26	10	25	14	43	25	5	24
Pulp mills	261	-	48	23	()	28	28	54
Paper mills	262	24	24	15	11	43	8	-
Paperboard mills	263	51	-	51	-	31	17	39
Paperboard containers and boxes	265	18	-	-	-	27	12	41
Miscellaneous converted paper products	267	14	()	15	()	23	8	37
Printing and publishing	27	33	27	28	-	26	9	49
Newspapers	271	-	()	-	-	14	18	-
Periodicals	272	-	6	26	33	11	9	14
Books	273	-	()	()	-	-	27	32
Miscellaneous publishing	274	59	()	-	-	22	36	-
Commercial printing	275	36	-	47	-	36	14	-
Manifold business forms	276	-	()	57	-	-	34	-
Greeting cards	277	26	48	26	()	-	29	()
Blankbooks and bookbinding	278	-	()	-	-	-	30	-
Printing trade services	279	()	()	()	()	()	-	-
Chemicals and allied products	28	7	22	24	27	18	9	13
Industrial inorganic chemicals	281	21	25	15	18	20	9	20
Plastics materials and synthetics	282	13	9	25	-	14	5	16
Drugs	283	14	34	-	48	56	20	14
Soap, cleaners, and toilet goods	284	17	14	17	51	46	21	54
Paints and allied products	285	27	-	58	()	-	-	-
Industrial organic chemicals	286	26	-	35	49	42	21	20
Agricultural chemicals	287	20	35	27	-	37	38	52
Miscellaneous chemical products	289	19	-	33	-	32	51	35
Petroleum and coal products	29	27	59	26	46	32	45	20
Petroleum refining	291	35	59	58	46	48	48	22
Asphalt paving and roofing materials	295	38	()	()	()	39	32	39
Miscellaneous petroleum and coal products	299	-	()	2	()	59	44	55
Rubber and miscellaneous plastics products	30	10	53	11	17	39	7	23
Tires and inner tubes	301	38	47	15	6	29	6	31
Rubber and plastics footwear	302	10	()	14	()	12	14	27
Hose and belting and gaskets and packing	305	17	-	26	-	-	21	55
Fabricated rubber products, n.e.c.	306	13	32	20	53	21	9	39
Miscellaneous plastics products, n.e.c.	308	13	-	14	19	40	10	30
Leather and leather products	31	8	-	22	43	33	10	17
Leather tanning and finishing	311	11	-	-	()	38	20	26
Footwear cut stock	313	28	()	33	()	()	17	43
Footwear, except rubber	314	17	()	31	55	-	14	22
Luggage	316	2	()	5	-	()	3	53
Handbags and personal leather goods	317	33	()	()	()	33	2	33

See footnotes at end of table.

Table A-3. Relative standard errors for measures of occupational illnesses by industry, and category of illness, 1991—Continued

Industry	SIC code ¹	Relative standard error (percent) ²						
		Skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational illnesses
Transportation and public utilities _____		8	28	15	29	13	8	10
Wholesale and retail trade _____		11	-	20	36	23	10	13
Wholesale trade _____		20	-	45	-	51	17	16
Retail trade _____		13	49	19	44	24	13	17
Finance, insurance, and real estate _____		36	-	-	-	45	13	18
Services _____		8	48	13	17	13	14	10

¹ Standard Industrial Classification Manual, 1987 Edition.

n.e.c. = not elsewhere classified.

² See discussion on reliability of estimates.

³ Relative standard error of less than 0.5.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines. Relative standard errors were not calculated for coal and lignite mining (SIC 12), metal and nonmetal mining (SIC 10 and 14), and railroads (SIC 40).

Table A-4. Relative standard errors for occupational injury and illness fatalities¹ for employers with 11 employees or more by industry division, 1991

Industry	Relative standard error (percent) ²
Private industry	12
Agriculture, forestry, and fishing	-
Mining	12
Construction	17
Manufacturing	8
Transportation and public utilities	25
Wholesale and retail trade	52
Finance, insurance, and real estate	-
Services	34

¹ Work-related fatalities cannot be measured accurately through a sample survey of this size (250,000 establishments) because of their relatively rare occurrence. The Bureau believes the Annual Survey significantly understates job-related deaths for the year.

To provide more complete data on this basic element of workplace safety, BLS has developed the Census of Fatal Occupational Injuries, which provides a systematic and verifiable count of fatally injured public and private sector workers. This program uses administrative records, such as death certificates, workers' compensation fatality claims, medical examiners' records, and other reports to Federal and State agencies, to identify the workplace fatalities and compile descriptive data on the workers and the circumstances of their deaths.

² See discussion on reliability of estimates.

NOTE: Dashes indicate that data are not available or that data do not meet publication guidelines.

Appendix B. Definitions

The definitions of occupational injuries and illnesses and lost workdays are from *Recordkeeping Guidelines for Occupational Injuries and Illnesses*.

Recordable injuries and illnesses are:

1. Occupational deaths, regardless of the time between injury and death, or the length of the illness; or
2. Nonfatal occupational illnesses; or
3. Nonfatal occupational injuries which involve one or more of the following: Loss of consciousness, restriction of work or motion, transfer to another job, or medical treatment (other than first aid).

Occupational injury is any injury such as a cut, fracture, sprain, amputation, etc., which results from a work-related event or from a single instantaneous exposure in the work environment.

Occupational illness is any abnormal condition or disorder, other than one resulting from an occupational injury, caused by exposure to factors associated with employment. It includes acute and chronic illnesses or disease which may be caused by inhalation, absorption, ingestion, or direct contact.

The following listing gives the categories of occupational illnesses and disorders that are used to classify recordable illnesses. For purposes of information, examples of each category are given. These are typical examples, however, and are not to be considered the complete listing of the types of illnesses and disorders that are to be counted under each category.

a. *Occupational skin diseases or disorders*. Examples: Contact dermatitis, eczema, or rash caused by primary irritants and sensitizers or poisonous plants; oil acne; chrome ulcers; chemical burns or inflammations.

b. *Dust diseases of the lungs (pneumoconioses)*. Examples: Silicosis, asbestosis and other asbestos-related diseases, coal worker's pneumoconiosis, byssinosis, siderosis, and other pneumoconioses.

c. *Respiratory conditions due to toxic agents*. Examples: Pneumonitis, pharyngitis, rhinitis or acute congestion due to chemicals, dusts, gases, or fumes; farmer's lung.

d. *Poisoning (systemic effects of toxic materials)*. Examples: Poisoning by lead, mercury, cadmium, arsenic, or other metals; poisoning by carbon monoxide, hydrogen sulfide, or other gases; poisoning by benzol, carbon tetrachloride, or other organic solvents; poisoning by insecticide sprays such as parathion and lead arsenate; poisoning by other chemicals such as formaldehyde, plastics, and resins.

e. *Disorders due to physical agents (other than toxic materials)*. Examples: Heatstroke, sunstroke, heat exhaustion, and other effects of environmental heat; freezing, frostbite, and effects of ionizing radiation (isotopes, X-rays, radium); effects of nonionizing radiation (welding flash, ultraviolet rays, microwaves, sunburn).

f. *Disorders associated with repeated trauma*. Examples: Conditions due to repeated motion, vibration, or pressure, such as carpal tunnel syndrome; noise-induced hearing loss; synovitis, tenosynovitis, and bursitis; and Raynaud's phenomena.

g. *All other occupational illnesses*. Examples: Anthrax, brucellosis, infectious hepatitis, malignant and benign tumors, food poisoning, histoplasmosis, coccidioidomycosis.

Lost workday cases are cases which involve days away from work, or days of restricted work activity, or both.

1. *Lost workday cases involving days away from work* are those cases which result in days away from work, or a combination of days away from work and days of restricted work activity.

2. *Lost workday cases involving restricted work activity* are those cases which result in restricted work activity only.

Lost workdays—away from work are the number of workdays (consecutive or not) on which the employee would have worked but could not because of occupational injury or illness.

Lost workdays—restricted work activity are the number of workdays (consecutive or not) on which, because of injury or illness:

1. The employee was assigned to another job on a temporary basis; or

2. The employee worked at a permanent job less than full time; or

3. The employee worked at a permanently assigned job but could not perform all duties normally connected with it.

The number of days away from work or days of restricted work activity does not include the day of injury or onset of illness or any days on which the employee would not have worked even though able to work.

Incidence rates represent the number of injuries and/or illnesses or lost workdays per 100 full-time workers and were calculated as: $(N/EH) \times 200,000$ where:

N = number of injuries and/or illnesses or lost workdays,

EH = total hours worked by all employees during the calendar year,

200,000 = base for 100 full-time equivalent workers (working 40 hours per week, 50 weeks per year).

Appendix C. How To Compute Your Firm's Incidence Rate for Safety Management

Incidence rates can be used to show the relative level of injuries and illnesses among different industries, firms, or operations within a single firm. Because a common base and a specific period of time are involved, these rates can help determine both problem areas and progress in preventing work-related injuries and illnesses.

How to compute incidence rates

An incidence rate of occupational injuries and illnesses can be calculated quickly and easily. The formula requires:

(a) *The number of injuries and illnesses.* Count the number of OSHA recordable cases from the Log and Summary of Occupational Injuries and Illnesses (Log) OSHA No. 200 or refer to the TOTALS line for the yearly total on the Log for fatalities, injuries and illnesses with lost workdays, and injuries and illnesses without lost workdays. The number of injuries and illnesses can also be obtained from the OSHA No. 200-S form (appendix D), if your company was surveyed for the calendar year for which incidence rates are desired.

(b) *The number of hours all employees actually worked.* Use payroll or other time records. "Hours worked" should not include any nonwork time, even though paid, such as vacation, sick leave, holidays, etc. (If actual hours worked are not available for employees paid on commission, by salary, or by the mile, etc., hours worked may be estimated on the basis of scheduled hours or 8 hours per workday.)

An incidence rate of injuries and illnesses may be computed from the following formula:

$$\frac{(a) \text{ Number of injuries and illnesses} \times 200,000}{(b) \text{ Employee hours worked}} = \text{Incidence rate}$$

(The 200,000 in the formula represents the equivalent of 100 employees working 40 hours per week, 50 weeks per year, and provides the standard base for the incidence rates.)

NOTE: You can use the same formula to compute incidence rates for:

- (1) The number of lost workday injury and illness cases (columns 2 + 9 of the OSHA Log or 200-S form);
- (2) The number of lost workday injury-only cases (column 2 of the OSHA Log or 200-S form);

(3) The number of lost workday illness-only cases (column 9 of the OSHA Log or 200-S form);

(4) The number of nonfatal injury and illness cases without lost workdays (columns 6 + 13 of the OSHA Log or 200-S form);

(5) The number of nonfatal injury-only cases without lost workdays (column 6 of the OSHA Log or 200-S form);

(6) The number of nonfatal illness-only cases without lost workdays (column 13 of the OSHA Log or 200-S form);

(7) The number of lost workdays for injuries and illnesses (columns 4 + 5 + 11 + 12 of the OSHA Log or the 200-S form);

(8) The number of lost workdays for injuries only (columns 4 + 5 of the OSHA Log or 200-S form);

(9) The number of lost workdays for illnesses only (columns 11 + 12 of the OSHA Log or 200-S form).

Jones Furniture Co. recorded 11 injuries and illnesses (from Log and Summary, OSHA No. 200). The total hours worked by all employees was 130,000 (from payroll or other time records).

$$\frac{11 \times 200,000}{130,000} = 16.9$$

Therefore, Jones Furniture Co. experienced a rate of 16.9 injuries and illnesses per 100 full-time employees.

To compute an incidence rate for your own firm, enter the data in the appropriate spaces below and complete the formula.

Number of injuries and illnesses in your firm	x	200,000	=	Incidence rate for your firm (Round to the nearest tenth)
Hours worked by all your employees				

The computed incidence rate is per 100 full-time employees and can be used to compare your firm's rate with the national rates for your industry in this bulletin.

NOTE: When comparing illness rates by types of illness, use 20,000,000 hours instead of 200,000 hours to get a rate per 10,000 full-time employees. (See table 7.)

Appendix D. OSHA No. 200-S Report Form and Instructions

Dear Employer:

The Occupational Safety and Health Act of 1970 requires the Secretary of Labor to collect, compile, and analyze statistics on occupational injuries and illnesses. This is accomplished through a joint Federal/State survey program with States that have received Federal grants for collecting and compiling statistics. Establishments are selected for this survey on a sample basis with varying probabilities depending upon size. Certain establishments may be included in each year's sample because of their importance to the statistics for their industry.

You have been selected to participate in the nationwide Occupational Injuries and Illnesses Survey for 1991. Under the Occupational Safety and Health Act, your report is mandatory.

The following items are enclosed for your use: (1) Instructions for completing the form; (2) The OSHA No. 200-S form and a copy for your files; and (3) An addressed return envelope. Please complete the OSHA No. 200-S form and return it within thirty days in the envelope provided.

If you have any questions about this survey, contact the survey collection agency indicated on the OSHA No. 200-S form.

Thank you for your cooperation with this important survey.

Sincerely,



GERARD F. SCANNELL
Assistant Secretary for
Occupational Safety and Health

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PAGE**



The information collected on this form will be held in confidence and will be used for statistical purposes only.

THIS REPORT IS MANDATORY UNDER PUBLIC LAW 91-596. FAILURE TO REPORT CAN RESULT IN THE ISSUANCE OF CITATIONS AND ASSESSMENT OF PENALTIES.

O.M.B. No. 1220-0045
Approval Exp. 9/30/92

St. Sch. No. Ck. Suf.

Burden Statement Located in Instructions

SIC

EDIT

Complete this report whether or not there were recordable occupational injuries or illnesses.

PLEASE READ THE ENCLOSED INSTRUCTIONS

Complete and return ONLY
THIS FORM within 30 days

I. ANNUAL AVERAGE EMPLOYMENT IN 1991

Enter the average number of employees who worked during calendar year 1991 in the establishment(s) covered by this report. Include all classes of employees: full-time, part-time, seasonal, temporary, etc. See the instructions for an example of an annual average employment calculation. (Round to the nearest whole number.)

II. TOTAL HOURS WORKED IN 1991

Enter the total number of hours actually worked during 1991 by all employees covered by this report. DO NOT include any non-work time even though paid such as vacations, sick leave, etc. If employees worked low hours in 1991 due to layoffs, strikes, fires, etc., explain under Comments (section VII). (Round to the nearest whole number.)

III. NATURE OF BUSINESS IN 1991

A. Check the box which best describes the general type of activity performed by the establishment(s) included in this report.

- ☐ Agriculture
- ☐ Forestry
- ☐ Fishing
- ☐ Mining
- ☐ Construction
- ☐ Manufacturing
- ☐ Transportation
- ☐ Communication
- ☐ Public Utilities
- ☐ Wholesale Trade
- ☐ Retail Trade
- ☐ Finance
- ☐ Insurance
- ☐ Real Estate
- ☐ Services
- ☐ Public Administration

B. Enter in order of importance the principal products, lines of trade, services or other activities. For each entry also include the approximate percent of total 1991 annual value of production, sales or receipts.

C. If this report includes any establishment(s) which perform services for other units of your company, indicate the primary type of service or support provided. (Check as many as apply.)

- 1. ☐ Central administration
- 2. ☐ Research, development and testing
- 3. ☐ Storage (warehouse)
- 4. ☐ Other (specify)

IV. TESTING FOR DRUG OR ALCOHOL USE

A. Did the establishment(s) covered by this report have a formal written policy to test job applicants and/or employees for drug or alcohol use during calendar year 1991?

- 1. ☐ No
- 2. ☐ Yes

B. Were any drug or alcohol tests administered at the company's request to any employees as the result of the occurrence of a recordable work-related injury or illness during calendar year 1991?

- 1. ☐ No
- 2. ☐ Yes

V. RECORDABLE INJURIES AND ILLNESSES

Did the establishment(s) have any recordable injuries or illnesses during calendar year 1991?

- 1. ☐ No (Please complete section VII.)
- 2. ☐ Yes (Please complete sections VI and VII.)

SEE REVERSE →

REPORT LOCATION AND IDENTIFICATION

Complete this report for the establishment(s) covered by the description below:

Please indicate any address changes below.

RETURN REPORT TO:

VI. OCCUPATIONAL INJURY AND ILLNESS SUMMARY (Covering Calendar Year 1991)

- Complete this section by copying totals from the annual summary of your 1991 OSHA No. 200.
- Remember to reverse the carbon insert before completing this side.
- Leave section VI blank if there were no OSHA recordable injuries or illnesses during 1991.
- Note: First aid for injuries even when administered by a doctor or nurse is not recordable.

- Please check your figures to be certain that the sum of entries in columns (7a) + (7b) + (7c) + (7d) + (7e) + (7f) + (7g) = the sum of entries in columns (8) + (9) + (13).
- If you listed fatalities in columns (1) and/or (8), please give a brief description of the object or event which caused each fatality in the "Comments" section.

OCCUPATIONAL INJURY CASES

OCCUPATIONAL ILLNESS CASES

INJURY RELATED FATALITIES** (DEATHS)	INJURIES WITH LOST WORKDAYS				INJURIES WITHOUT LOST WORKDAYS*
	Injury cases with days away from work and/or restricted workdays	Injury cases with days away from work	Total days away from work	Total days of restricted activity	
Number of DEATHS in col. 1 of the log (OSHA No. 200) (1)	Number of CHECKS in col. 2 of the log (OSHA No. 200) (2)	Number of CHECKS in col. 3 of the log (OSHA No. 200) (3)	Sum of the DAYS in col. 4 of the log (OSHA No. 200) (4)	Sum of the DAYS in col. 5 of the log (OSHA No. 200) (5)	Number of CHECKS in col. 6 of the log (OSHA No. 200) (6)
DEATHS					

TYPE OF ILLNESS Enter the number of checks from the appropriate columns of the log (OSHA No. 200).							ILLNESS RELATED FATALITIES** (DEATHS)	ILLNESSES WITH LOST WORKDAYS				ILLNESSES WITHOUT LOST WORKDAYS*
Occupational skin diseases or disorders	Dust diseases of the lungs	Respiratory conditions due to toxic agents	Poisoning (systemic effects of toxic materials)	Disorders due to physical agents	Disorders associated with repeated trauma	All other occupational diseases		Illness cases with days away from work and/or restricted workdays	Illness cases with days away from work	Total days away from work	Total days of restricted activity	
							Number of DEATHS in col. 8 of the log (OSHA No. 200) (8)	Number of CHECKS in col. 9 of the log (OSHA No. 200) (9)	Number of CHECKS in col. 10 of the log (OSHA No. 200) (10)	Sum of the DAYS in col. 11 of the log (OSHA No. 200) (11)	Sum of the DAYS in col. 12 of the log (OSHA No. 200) (12)	Number of CHECKS in col. 13 of the log (OSHA No. 200) (13)
(a)	(b)	(c)	(d)	(e)	(f)	(g)						
							DEATHS					

* WITHOUT LOST WORKDAYS—CASES (WITH NO DAYS LOST) RESULTING IN EITHER DIAGNOSIS OF OCCUPATIONAL ILLNESS, LOSS OF CONSCIOUSNESS, RESTRICTION OF WORK OR MOTION (ON THE DAY OF OCCURRENCE), TRANSFER TO ANOTHER JOB, OR MEDICAL TREATMENT BEYOND FIRST AID.

VII. REPORT PREPARED BY (Please type or print)

NAME _____
 TITLE _____
 SIGNATURE _____
 AREA CODE _____ PHONE _____
 DATE _____

** IF YOU LISTED FATALITIES IN COLUMNS (1) AND/OR (8), PLEASE GIVE A BRIEF DESCRIPTION OF THE OBJECT OR EVENT WHICH CAUSED EACH FATALITY IN THE COMMENTS SECTION BELOW

COMMENTS _____

SURVEY REPORTING REGULATIONS

Title 29, Part 1904.20-22 of the Code of Federal Regulations requires that: each employer shall return the completed survey form, OSHA No. 200-S, within 30 days of receipt in accordance with the instructions shown below.

We estimate that it will take an average of 10 - 30 minutes to complete this form, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing this information. If you have any comments regarding these estimates or any other aspect of this survey, send them to the Bureau of Labor Statistics, Division of Management Systems (1220-0045), 441 G St. NW, Washington, DC 20212, and to the Office of Management and Budget, Paperwork Reduction Project (1220-0045), Washington, DC 20503.

INSTRUCTIONS FOR COMPLETING THE OSHA NO. 200-S FORM 1991 OCCUPATIONAL INJURIES AND ILLNESSES SURVEY (Covering Calendar Year 1991)

Change of Ownership - When there has been a change of ownership during the report period, only the records of the current owner are to be entered in the report. Explain fully under Comments (Section VIII), and include the date of the ownership change and the time period this report covers.

Partial-Year Reporting - For any establishment(s) which was not in existence for the entire report year, the report should cover the portion of the period during which the establishment(s) was in existence. Explain fully under Comments (Section VIII), including the time period this report covers.

ESTABLISHMENTS INCLUDED IN THE REPORT

This report should include only those establishments located in, or identified by, the Report Location and Identification designation which appears next to your mailing address. This designation may be a geographical area, usually a county or city, or it could be a brief description of your operation within a geographical area. If you have any questions concerning the coverage of this report, please contact the agency identified on the OSHA No. 200-S report form.

DEFINITION OF ESTABLISHMENT

An ESTABLISHMENT is defined as a single physical location where business is conducted or where services or industrial operations are performed. (For example, a factory, mill, store, hotel, restaurant, movie theatre, farm, ranch, bank, sales office, warehouse, or central administrative office.)

For firms engaged in activities such as construction, transportation, communication, or electric, gas and sanitary services, which may be physically dispersed, reports should cover the place to which employees normally report each day.

Reports for personnel who do not primarily report or work at a single establishment, such as traveling salespersons, technicians, engineers, etc., should cover the location from which they are paid or the base from which personnel operate to carry out their activities.

SECTION I. ANNUAL AVERAGE EMPLOYMENT IN 1991

Enter in Section I the average (not the total) number of full and part-time employees who worked during calendar year 1991 in the establishment(s) included in this report. If more than one establishment is included in this report, add together the annual average employment for each establishment and enter the sum. Include all classes of employees - seasonal, temporary, administrative, supervisory, clerical, professional, technical, sales, delivery, installation, construction and service personnel, as well as operators and related workers.

Annual Average employment should be computed by summing the employment from all pay periods during 1991 and then dividing that sum by the total number of such pay periods throughout the entire year, including periods with no employment. For example, if you had the following monthly employment - Jan.-10; Feb.-10; Mar.-10; Apr.-5; May-5; June-5; July-5; Aug.-0; Sept.-0; Oct.-0; Nov.-5; Dec.-5 - you would sum the number of employees for each monthly pay period (in this case, 60) and then divide that total by 12 (the number of pay periods during the year) to derive an annual average employment of 5.

SECTION II. TOTAL HOURS WORKED IN 1991

Enter in Section II the total number of hours actually worked by all classes of employees during 1991. Be sure to include only time on duty. DO NOT include any non-work time even though paid, such as vacations, sick leave, holidays, etc. The hours worked figure should be obtained from payroll or other time records wherever possible; if hours worked are not maintained separately from hours paid, please enter your best estimate. If actual hours worked are not available for employees paid on commission, salary, by the mile, etc., hours worked may be estimated on the basis of scheduled hours or 8 hours per workday.

For example, if a group of 10 salaried employees worked an average of 8 hours per day, 5 days a week, for 50 weeks of the report period, the total hours worked for this group would be $10 \times 8 \times 5 \times 50 = 20,000$ hours for the report period.

SECTION III. NATURE OF BUSINESS IN 1991

In order to verify the nature of business code, we must have information about the specific economic activity carried on by the establishment(s) included in your report during calendar year 1991.

Complete Parts A, B and C as indicated in Section III on the OSHA No. 200-S form. Complete Part C only if supporting services are provided to other establishments of your company. Leave Part C blank if a) supporting services are not the primary function of any establishment(s) included in this report or b) supporting services are provided but only on a contract or fee basis for the general public or for other business firms. (Instructions continued on page 2.)

NOTE: If more than one establishment is included, information in Section III should reflect the combined activities of all such establishments. One code will be assigned which best indicates the nature of business of the group of establishments as a whole.

SECTION IV. TESTING FOR DRUG OR ALCOHOL USE

A. Check the appropriate box. Check "Yes" if your company had a formal written policy, during calendar year 1991, to test JOB APPLICANTS and/or EMPLOYEES for drug or alcohol use. Examples of testing policies include: "For cause", for selected jobs, random tests, as part of an annual physical, periodic tests, or testing all employees.

Drug Test--A test designed to detect the presence of metabolites or drugs in urine or blood specimens.

Drugs include opioids, cocaine, cannabinoids (such as marijuana or hashish), hallucinogens, and their derivatives. Drugs for which persons have prescriptions (whether or not the prescription was legally obtained) are excluded. Please answer part B.

B. Check the appropriate box. Check "Yes" only if an employee was actually tested for drug or alcohol use in connection with a work-related injury or illness, **EVEN IF THE EMPLOYEE WAS ONE OTHER THAN THE EMPLOYEE WHO WAS INJURED OR BECAME ILL**, during calendar year 1991. Only drug or alcohol tests administered at the request of the company, whether actually administered by the company or another organization, should be considered when answering this question.

SECTION V. RECORDABLE INJURIES AND ILLNESSES

Check the appropriate box. If you checked "Yes", complete Sections VI and VII on the back of the form. If you checked "No", complete only Section VII.

SECTION VI. OCCUPATIONAL INJURY AND ILLNESS SUMMARY

This section can be completed easily by copying the totals from the annual summary of your 1991 OSHA No. 200 form (Log and Summary of Occupational Injuries and Illnesses). Please note that if this report covers more than one establishment, the final totals on the "Log" for each must be added and the sums entered in Section VI.

Leave Section VI blank if the employees covered in this report experienced no recordable injuries or illnesses during 1991.

If there were recordable injuries or illnesses during the year, please review your OSHA No. 200 form for each establishment to be included in this report to make sure that all entries are correct and complete before completing Section VI. Each recordable case should be included on the "Log" in only one of the six main categories or injuries or illnesses:

1. INJURY - related deaths (Log column 1)
2. INJURIES with days away from work and/or restricted days (Log column 2)
3. INJURIES without lost workdays (Log column 6)
4. ILLNESS - related deaths (Log column 8)
5. ILLNESSES with days away from work and/or restricted days (Log column 9)
6. ILLNESSES without lost workdays (Log column 13)

Also review each case to ensure that the appropriate entries have been made for the other columns if applicable. For example, if the case is an injury with Lost Workdays, be sure that the check for an injury involving days away from work (Log column 3) is entered if necessary. Also verify that the correct number of days away from work (Log column 4) and/or days of restricted work activity (Log column 5) are recorded. A similar review should be made for a case which is an illness with Lost Workdays (including Log columns 10, 11 and 12). Please remember that if your employees' loss of workdays is still continuing at the time the annual summary for the year is completed, you should estimate the number of future workdays they will lose and add this estimate to the actual workdays already lost. Each partial day away from work, other than the day of the occurrence of the injury or onset of illness, should be entered as one full restricted workday.

Also, for each case which is an illness, make sure that the appropriate column indicating Type of Illness (Log columns 7a-7g) is checked.

After completing your review of the individual case entries on the "Log," please make sure that the "Totals" line has been completed by summarizing Columns 1 through 13 according to the instructions on the back of the "Log" form. Then, copy these "Totals" onto Section VI of the OSHA No. 200-S form. If you entered fatalities in columns (1) and/or (8), please include in the "Comments" section a brief description of the object or event which caused each fatality.

FIRST AID

Finally, please remember that all injuries which, in your judgement, required only First Aid Treatment, even when administered by a doctor or nurse, should not be included in this report. First Aid Treatment is defined as one-time treatment and subsequent observation of minor scratches, cuts, burns, splinters, etc., which do not ordinarily require medical care.

SECTION VII. COMMENTS AND IDENTIFICATION

Please complete all parts including your area code and telephone number. Then return the OSHA No. 200-S form in the pre-addressed envelope. **KEEP** your file copy.

80

Appendix E. State Agencies Receiving Federal Funds

The list below provides addresses and phone numbers for State agencies which receive Federal funds for participating in the Annual Survey of Occupational Injuries and Illnesses. State estimates are available from agencies preceded by an asterisk (*).

*Alabama Department of Labor
1789 Cong. W.L. Dickinson Drive, Second Floor
Montgomery, AL 36130
Phone: 205-242-3460

*Alaska Department of Labor
Research and Analysis Section
P.O. Box 25501
Juneau, AK 99802
Phone: 907-465-4520

*Government of American Samoa
Department of Manpower Resources
Division of Labor
Pago Pago, AS 96799
Phone: 684-633-2154

*Industrial Commission of Arizona
Division of Administration
Research and Statistics Section
P.O. Box 19070
Phoenix, AZ 85005
Phone: 602-542-3739

*California Department of Industrial Relations
Labor Statistics and Research Division
P.O. Box 429488
San Francisco, CA 94142-9488
Phone: 415-703-3871

*Connecticut Department of Labor
OSHS Survey
200 Folly Brook Blvd.
Wethersfield, CT 06109
Phone: 203-566-4380

*Delaware Department of Labor
Division of Industrial Affairs - OSHA
State Office Building
820 N. French St.
Wilmington, DE 19801
Phone: 302-577-2888

*Florida Department of Labor and
Employment Security
Division of Safety
Building E, Suite 45
2002 Old U.S. Augustine Road
Tallahassee, FL 32399-0663
Phone: 904-488-3044

Georgia Department of Labor
223 Courtland Street, N.E.
Suite 301
Atlanta, GA 30303
Phone: 404-656-2966

*Guam Department of Labor
Bureau of Labor Statistics
Occupational Safety and Health Statistics
P.O. Box 9970
Tamuning, GU 96911
Phone: 671-646-9241

*State of Hawaii
Department of Labor and Industrial Relations
Research and Statistics Office - OSHA
820 Punchbowl Street, Room 306
Honolulu, HI 96813
Phone: 808-586-9004

*Indiana Department of Labor
Research and Statistics Division
402 West Washington Street, Room W195
Indianapolis, IN 46204-2751
Phone: 317-232-2665

*Iowa Department of Employment Services
Division of Labor - OSH Survey
1000 East Grand Ave.
Des Moines, IA 50319
Phone: 515-281-5151

*Kansas Department of Health and
Environment
Research and Analysis
Building 749, Forbes Field
Topeka, KS 66620
Phone: 913-296-5612

*Kentucky Labor Cabinet
Division of Education and Training
Statistical Services - Survey Section
1019 E. N. 125 South
Frankfort, KY 40601
Phone: 502-564-3100

*Louisiana Department of Labor
Research and Statistics Unit - OSHA
P.O. Box 91093
Baton Rouge, LA 70804-9093
Phone: 504-382-3126

*Maine Department of Labor
Bureau of Labor Statistics
State House, 815
Augusta, ME 04223
Phone: 207-624-6114

*Maryland Department of Licensing and Regulation
Division of Labor and Industry
501 St. Paul Pl.
Baltimore, MD 21202-2272
Phone: 410-333-4202

Commonwealth of Massachusetts
Department of Labor and Industries
Saltonstall State Office Building
OSHA Survey
100 Cambridge St., 11th Fl., Room 1101
Boston, MA 02202
Phone: 617-727-3593

*Michigan Department of Labor
MIOSHA Information Division
7150 Harris Dr., Secondary Complex
P.O. Box 30015
Lansing, MI 48909
Phone: 517-322-1848

*Minnesota Department of Labor and Industry IMSD
443 Lafayette Rd., 3rd Fl.
St. Paul, MN 55155-4305
Phone: 612-296-4041

*Mississippi State Department of Health
Health Surveys/OSH Survey
Post Office Box 1700
Jackson, MS 39215-1700
Phone: 601-960-7971

*Missouri Department of Labor and Industrial Relations
Division of Workers' Compensation
Occupational Safety and Health
P.O. Box 58
Jefferson City, MO 65102
Phone: 314-751-4231

*Montana Department of Labor and Industry
Research and Analysis Section
P.O. Box 1728
Helena, MT 59624
Phone: 406-444-2430

*Nebraska Workers' Compensation Court
P.O. Box 98908
Lincoln, NE 68509-8908
Phone: 402-471-3546

*Nevada Department of Industrial Relations
Division of Occupational Safety and Health
1370 South Curry St.
Carson City, NV 89710
Phone: 702-687-5240

New Jersey Department of Labor
Division of Policy and Planning
CN 057
Trenton, NJ 08625-0057
Phone: 609-292-8998

*New Mexico Health and Environment Department
Environmental Improvement Division
525 Camino de Los Marquez
Santa Fe, NM 87502-6110
Phone: 505-827-2877

¹New York State Department of Labor
Division of Research and Statistics
1 Main St., Rm. 907
Brooklyn, NY 11201
Phone: 718-797-7701

*North Carolina Department of Labor
Research and Statistics Division
4 West Edenton Street
Raleigh, NC 27601
Phone: 919-733-4940

*North Dakota Workers' Compensation Bureau
D/P Statistics Department
4000 N. State Street
Bismarck, ND 58501
Phone: 701-224-3760

*Oklahoma Department of Labor
Statistical Research Unit
4001 N. Lincoln Blvd., Room 318
Oklahoma City, OK 73105
Phone: 405-528-1500 ext. 261

*Oregon Department of Insurance and Finance
Information and Management Division
Research and Statistics Section
21 Labor and Industries Bldg.
Salem, OR 97310
Phone: 503-378-8254

Pennsylvania Department of Labor and Industry
R & S Bureau - OSHA, Room 1203
7th and Forster Sts.
Harrisburg, PA 17121
Phone: 717-787-1918

*Puerto Rico Department of Labor and Human Resources
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*Rhode Island Department of Labor-OSH Survey
Division of Occupational Safety
220 Elmwood Avenue, Room 100
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*South Carolina Department of Labor
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Columbia, SC 29211
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*Tennessee Department of Labor
Research and Statistics
501 Union Bldg., Suite 503
Nashville, TN 37243-0660
Phone: 615-741-1748

*Texas Workers' Compensation Commission
Workers' Health and Safety Division/BLS
4000 So. IH-35, Southfield Bldg.
Austin, TX 78704-7491
Phone: 512-440-3852

*Utah Industrial Commission
UOSH Statistics
P.O. Box 146650
Salt Lake City, UT 84151-6650
Phone: 801-530-8823

*Vermont Department of Labor
and Industry
VT OSHA
State Office Building
120 State Street
Montpelier, VT 05602
Phone: 802-828-2765

*Virgin Islands Department of Labor
Bureau of Labor Statistics
P.O. Box 3359
St. Thomas, VI 00803
Phone: 809-776-3700, ext. 101

*Virginia Department of Labor and
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VOSH Research and Analysis
13 S. 13th Street
Richmond, VA 23219
Phone: 804-786-5490 or 1035

*State of Washington
Department of Labor and Industries
Division of Industrial Safety and Health
P.O. Box 44631
Olympia, WA 98504-4631
Phone: 206-956-5512

*West Virginia Department of Labor
Bldg. 3, Rm. 319
Capitol Complex
Charleston, WV 25305
Phone: 304-558-7890

Wisconsin Department of Industry,
Labor, and Human Relations
Workers' Compensation Division
Research Section
201 E. Washington Ave.
P.O. Box 7901, Room 261X
Madison, WI 53707-7901
Phone: 608-266-7850

*Wyoming Department of Labor and
Statistics
Herschler Bldg., 2 East
Cheyenne, WY 82002
Phone: 307-777-6371

¹ State estimates are available for the public sector only.

Work Injury Report Publications

The BLS Work Injury Report program obtains additional information on specific types of injuries through surveys of injured workers. Listed below are the studies released to date.

The following are available for purchase from the U.S. Department of Commerce, National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161. Phone: (703) 487-4690. Cost, \$9.95 for paper copy, \$5.95 for microfiche. Add \$3.00 for handling fee.

Survey of Ladder Accidents Resulting in Injuries
NTIS Accession No. PB83 207985 (1978)

Survey of Welding and Cutting Accidents Resulting in Injuries
NTIS Accession No. PB83 208017 (1978)

Survey of Scaffold Accidents Resulting in Injuries
NTIS Accession No. PB83 208009 (1978)

Survey of Power Saw Accidents Resulting in Injuries
NTIS Accession No. PB83 207993 (1978)

Accidents Involving Eye Injuries
NTIS Accession No. PB83 182535 (1980)

Accidents Involving Face Injuries
NTIS Accession No. PB83 183335 (1980)

Accidents Involving Head Injuries
NTIS Accession No. PB83 183343 (1980)

Accidents Involving Foot Injuries
NTIS Accession No. PB83 182527 (1981)

Injuries Related to Servicing Equipment
NTIS Accession No. PB83 182543 (1981)

Back Injuries Associated With Lifting
NTIS Accession No. PB83 183319 (1982)

Work-Related Hand Injuries and Upper Extremity Amputations
NTIS Accession No. PB83 183309 (1982)

The following are available from the BLS Publications Sales Office, P.O. Box 2145, Chicago, IL 60690. Phone: (312) 353-1880.

Injuries Resulting from Falls From Elevations
Bulletin 2195 (1984), \$1.75.

Injuries in the Logging Industry
Bulletin 2203 (1984), \$1.75.

Injuries Resulting From Falls on Stairs
Bulletin 2214 (1984), \$1.75.

Injuries to Construction Laborers
Bulletin 2252 (1986), \$1.75.

Injuries to Warehouse Workers
Bulletin 2257 (1986), \$1.75.

Injuries Involving Longshore Operations
Bulletin 2326 (1989), \$1.75.

Chemical Burn Injuries
Bulletin 2353 (1989), \$1.75.

Heat Burn Injuries
Bulletin 2358 (1990), \$1.75.

Bureau of Labor Statistics

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